

SEQUENCE LISTING

<110> Craig Rosen,
Steve Ruben

<120> Human Lung Cancer Associated Gene Sequences and Polypeptides

<130> PA104

<140> Not available

<141> 2000-03-07

<150> 60/124,270

<151> 1999-03-12

<160> 896

<170> PatentIn Ver. 2.0

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<211> 1580

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1566)

<223> n equals a,t,g, or c

<220>

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<222> (1576)

<223> n equals a,t,g, or c

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<211> 2442

<212> DNA

<213> Homo sapiens

<400> 2

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<211> 1787

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (180)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (205)

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<220>

<221> misc feature

<222> (1759)

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<222> (1772)

<223> n equals a,t,g, or c

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<211> 846

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<213> Homo sapiens

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<210> 5

<211> 1277

<212> DNA

<213> Homo sapiens

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<210> 6

<211> 2202

<212> DNA

<213> Homo sapiens

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<211> 1298

<212> DNA

<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 9
<211> 2155
<212> DNA
<213> Homo sapiens

<400> 9
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<210> 10

<211> 1208

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1159)

<223> n equals a,t,g, or c

<400> 10

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gcagatcgtg ctgtctccag cgtttatcct ggctgcagag tcgcttccca agattggaga 540
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<210> 11

<211> 2312

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2305)

<223> n equals a,t,g, or c

<400> 11

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<210> 12
<211> 915
<212> DNA
<213> Homo sapiens

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<400> 12
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atcatgaaga agctc 915

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<210> 13
<211> 1452
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (974)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (1432)
<223> n equals a,t,g, or c

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<220>

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11

<221> misc feature
 <222> (1437)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1439)
 <223> n equals a,t,g, or c

<400> 13
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 ggggtgtatgg ggccgtagga accggctccg gggcccccgat aacgggccgc cccacagca 180
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<210> 14
 <211> 441
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (348)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (402)
 <223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<400> 14
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<210> 15
<211> 524
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<400> 15
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cctctctggc cctcatcctn ctgagctgca aaggaaaagc caagtgaagc gggctctggg 480
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<210> 16
<211> 2432
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (245)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (763)

<223> n equals a,t,g, or c

<400> 16

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cactcaggtg tcagtgtctc agtatggaag catcaccacc attgacgtgc catggnaacg 240
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ccagtgtctcc cagaagccct gtgaggacag ct

2432

<210> 17

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<400> 17

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gtgaagaagc ccacggaagg aaagtccagg gaggaggaaa agaagcagaa gttttggcat 120
ctgttcctcg gctgtgccaa gatgggcgat tggagcttcc tgggaaattt cctggaggaa 180
gtacacaagc actcgaccgt ggtaggcaag gtctggctca ctgtcctctt catattccgt 240
atgctcgtgc tgggcacagc tgctgagtct tcctgggggg atgagcaggc tgatttccgg 300
tgtgatacga ttcagcctgg ctgccagaat gtctgstasg accaggcttt tcccatnttc 360
ccacatnctg ta 372

<210> 18

<211> 929

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (918)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (929)

<223> n equals a,t,g, or c

<400> 18

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aacgtgggaa tcacaccctc cagacctccc acagctccac cccagactgg gcgccggccc 240
tgcctccatt tcagctgtga caacctcaga gccgtgttg cccaagcatg acaaggacgt 300
atgaaaactt ccagtacttg gagaataagg tgaaagtcca ggggtttaa aatgggscac 360
ttcctctcca gtccctcctg cagcgtctcy gctctgggsc ctgccatctc ctgctgtccc 420
tggggctcgg nctcctgctg ctggcatca tctgtgtgtg tggattccaa aattccaaat 480
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cggagatcca ggcagtactt cccagggcag cagcttgga gaaacgatag catctctgaa 600
agctgaggtg ganggtttca agcaggaacg gcaggcagtt cattctgaaa tgctcctgcg 660
agtccagcag ctgggtgcaag acctgaagaa actgacctgc caggtggcta ctctcaacaa 720
caatggcctc cactgaaggg acctgctgcc cygtcaactg ggtggagcac caagacagct 780
gctactggtt ctctcaytct gggatgtcct gggccgaagc tgagaagtac tgccarctga 840
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<210> 19

<211> 416

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (196)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<400> 19

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ctggggccta acaaaaagaa acctgccatg ctgctcttcc tcctctctgc actggtcctg 60
ctcacacagc ccctgggcta cctggaagca gaaatgaaga cctactccca cagaacaatg 120
cccagtgtt gcacctggt catgtgtagc tcagtggaga gtggcctgcc tggctcgcgct 180
ggacgggatg ggaganaggg ccctcggggc gagaaggggg acccaggttt gccaggagct 240
gcagggcaag cagggatgcc tggacaagct ggcccagttg ggcccaaagg ggacaatggc 300
tctgttgag aacctggacc aaagggagac acttgggcca agttggacct tcaggaaact 360
ccggtgttnc tggccaact tgnagagaag gtcccttggg gaagcaaggg gacata 416

```

<210> 20

<211> 1853

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<400> 20

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gcgcagatgg gctcagagtt tgggaactgg ggcgctggga ctgtggactg aggaggcctt 120
tgacatcttt gaagatttcc cggatctcaa ctctgtgctc tggggagctg aggagaggaa 180
atgggtcccc taccgggtcc ccaacaataa cttgcccatc cctgaacgct acctttcgcc 240
agatgccacg gtatccacgg aggtccgggc catcattgcc tggatggaga agaaccctt 300
cgtgctggga gcaaatctga acggcggcga gcggctagta tcctaccctc acgatatggc 360
ccgcacgcct acccaggagc agctgctggc cgcacatgg cagcagccc gggggaggat 420
gaggacgagg tctccgaggc ccaggagact ccagaccacg ccattctccg gtggcttgcc 480
atctccttcg cctccgcaca cctcaccttg accgagccct accgcggagg ctgccaagcc 540
aggactacac cggcggcatg ggcatcgtca acggggccaa gtggaacccc cggaccggga 600
ctatcaatga cttcagttac ctgcatacca actgcctgga gctctccttc tacctgggct 660
gtgacaagtt ccctcatgag agtgagctgc cccgcgagtg ggagaacaac aaggaggcgc 720
tgctcacctt catggagcag gtgcaccgcg gcattaaggg ggtggtgacg gacgagcaag 780
gcatcccat tgccaacgcc accatctctg tgagtggcat taatcacggc gtgaagacag 840
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cgagggggcta caccgcgagc gccaaagacct gcaatgttga ctatgacatc ggggccactc 960
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agccactggc caggcattcc cttcacaac agtagagacc tacacagtga actttgggga 1500
cttctgagat cagcgtccta ccaagacccc agcccaactc aagctacagc agcagcactt 1560
cccaagcctg ctgaccacag tcacatcacc catcagcaca tgggaaggcc ctggtatgga 1620
cactgaaagg aagggtcgtt cctgcccctt tgagggggtg caaacatgac tgggacctaa 1680
gagccagagg ctgtgtagag gctcctgctc cacctgccag tctcgtaaga gatggggttg 1740
ctgcagtgtt ggagtagggg cagagggagg gagccaaggt cactccaata aaacaagctc 1800
atggcamaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaattctcgg tcg 1853
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<210> 21

<211> 1707

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<400> 21

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caattgtggc ccttggnatgt ncccgaactt gacgcaataa caaaanatgg cgtcagttgg 60
gggtccattgc aaaacagggg aaaaggggtg gggaaggngc cctccttcct tggggggaac 120
ccttttttgc cccaactctc agaanggcc cctaccgcgc cctcccgccg tctcccttc 180
acctaagttc ctccagagcc gtctccctgg gaattagccc tctcctaact ccgaccacag 240
aaagctcagc tttcaacctc agcttttggg gtttaggctg tagtcctaa gagagtctct 300
agaaaccctg cccctagttt taagtttcgc ccaatgaaaa aacaaaagga gagggacaga 360
aggcgggtcg gtgacgtaat gcgggttgat tggcatgcag gccttgagcg tccaggatta 420
gccacgcatt tcgccaatcc agaggcaggg gagggacggt gcaggcgagc agtattgggt 480
ttggctggcc tcgatttaaa gagacagaag ctgtcggggt cctggaagac ggtccccaat 540
accctcccc caagtccttg ggaccacttg ggtccccaga gctggggaga tggtttgg 600
cggctttgcc tgctccaaga atgcgctttg cgctctcaac gtggtctaca tgctggtgag 660
cttggtgtgc attggagtgg ctgcttgggg caagggcctg ggtctggtgt ccagcatcca 720
catcatcggc ggagtcattg ctgtgggagt cttccttctc cttattgcag tggctggact 780
ggtgggtgct gtcaaccacc accaagtcct gctgttcttt tacatgatca tcttggttt 840
ggtcttcac tcacaatttg taatctcttg ctcatgtctg gctattaacc gaagcaaaaca 900
gacagatgtc atcaatgctt cttggtgggt catgagcaac aagactcggg atgaactgga 960
aagaagtttt gattgttgtg gcttattcaa cctcacaacc ctgtatcaac aagattatga 1020
tttctgcaat gcaatctgca agagccagag ccccatatgc cagatgtgtg gagaaaagtt 1080
tcttaagcat tcagacgaag ccctgaaaat cctagggggt gttggactct tctttagctt 1140
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acatatttta gtgggagcca gactataagg aataaaaagga aaaactttct tctctctct 1440
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ggtaaatcag ggatagggcc aaggagaaaa caaccaagaa ctctttctct taataagcag 1620
gatccagttt gagaaagttt agcgaatata aaagtaaaa ccwtttaaaa atctatattc 1680
tttttttttt tttgacacag gttttgg 1707

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<210> 22

<211> 870

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (847)
<223> n equals a,t,g, or c

<400> 22
cctggccttga gtagggcaga gagcaccgcc cagcagccag tgggttcccg cgcgtgccga 60
gactctgagg ccttgacccc ccacgatccc gtacgatggc cgtcaagaag atcgcgatct 120
tcggcgccac tggccagacc gggctcacca ccctggcgca ggcggtgcaa gcaggttacg 180
aagtgcagct gctggtgcgg gactcctcca ggctgccatc agagggggccc cggccggccc 240
acgtggtagt gggagatgtt ctgcaggcag ccgatgtgga caagaccgtg gctgggcagg 300
acgtgtcat cgtgctgctg ggcacccgca atgacctcag tcccacgaca gtgatgtccg 360
agggcgcccc gaacattgtg gcagccatga aggctcatgg tgtggacaag gtcgtggcct 420
gcacctcgcc ttctctgctc tgggacccta ccaaggtgcc cccacgactg caggctgtga 480
ctgatgacca catccggatg cacaaggtgc tgcgggaatc aggcctgaag tacgtggctg 540
tgatgccgcc acacatagga gaccagccac taactggggc gtacacagtg accctggatg 600
gacgagggcc ctcaagggtc atctccaaac atgacctggg ccatttcatt ctgcgctgcc 660
tcaccaccga tgagtacgac ggacacagca cctaccctc ccaccagtac cagtagcact 720
ctgtcccat ctgggagggg ggcattcttg gacatgagga gcaaaggaa ggggcaataa 780
atgttgagcc aagagcttca aattactcta gagaaaaaa aaaaaaaaaa aaatctccgg 840
gggggggnccc gttccccatt ggccctttgg 870

<210> 23
<211> 654
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (640)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (654)
<223> n equals a,t,g, or c

<400> 23
ggcagaggga tccagcccgg gagaggaccg agctggagga gctgggtgtg gggcgcttg 60
ggctggtggg gaggcctagt ttgggtgcaa gtaggctga ttgagcttgt gttgtgctga 120
agggacagcc ctgggtctag gggagagagt ccctgagtgt gagaccgcc ttccccggtc 180
ccagcccctc ccagttcccc cagggacggc cacttcctgg tccccgacgc aacctggct 240
gaagaacaac cgcagtcgaa ttgttcgtga aggctggcag tgatggggcc aagattggga 300


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actgcccatt ctcccagaga ctgttcatgg tactgtggct caagggagtc accttcaatg 360
ttaccaccgt tgacacaaaa agggcgaccg agacagtga gaagctgtgc ccaggggggc 420
agctcccatt cctgctgtat ggcactgaag tgcacacaga caccaacaag attgaggaat 480
ttctggaggc agtgcgtgtgc cctcccaggt accccaagct ggcagntctg aamcctgagt 540
ccaacacagy tgggctggac atatttgcca aattttctgc ctacatcaag aattccaaac 600
ccagcactca attgacaatc tggagaaggg actcctgaan gccctgaagg tttt      654

```

<210> 24

<211> 1400

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<400> 24

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ggccatataa ctcaattcta tgggataata gggcaatata ccaatctcct gaggcttgtg 120
gatttctatg ttatgccggg ggttaatgtg gatggttatg aactactcat ggaaaaagaa 180
tcgaatgtgg agaaagaacc gttctttcta tgcgaacaat cattgcatcg gaacagacct 240
gaataggaac tttgcttcca aacactgggt tgaggaagggt gcatccagtt cctcatgctc 300
ggaaacctac tgtggacttt atcctgagtc agaaccagaa gtgaaggcag tggctagtgt 360
cttgagaaga aatatcaacc agattaaaagc atacatcagc atgcattcat actcccagca 420
tatagtgttt ccatattcct atacacgaag taaaagcaaa gaccatgagg aactgtctct 480
agtagccagt gaagcagttc gtgctattga gaaaactagt aaaaatacca ggtatacaca 540
tggccatggc tcagaaacct tatacctagc tcctggagggt ggggacgatt ggatctatga 600
tttgggcacg aaatattcgt ttacaattga acttcgagat acgggcacat acggattctt 660
gctgccggag cgttacatca aaccacctg tagagaagct tttgccgctg tctctaaaat 720
agcttggcat gtcattagga atgtttaatg cccctgattt tatcattctg cttccgtatt 780
ttaatttact gattccagca agaccaaatc attgtatcag attattttta agttttatcc 840
gtagttttga taaaagattt tcctattcct tggttctgtc agagaacctt ataagtgtca 900
ctttgccatt aaggcagact agggttcatg tctttttacc ctttaaaaaa aattgtaaaa 960
gtctagttac ctactttttc tttgattttc gacgtttgac tagccatctc aagcaacttt 1020
cgacgtttga ctagccatct caagcaagtt taatcaawga tcatctcacg ctgatcattg 1080
gatcctactc aacaaaagga aggggtgtca gaagtacatt aaagatttct gctccaaatt 1140
ttcaataaat ttctgcttgt gccttttagaa atacaacat gcattccgtt tgctccacgg 1200
taattaggcg atggcccaga aaggggaggg gtgtcaaaaa cgacaaacat agcctctcat 1260
tccagctcag ctgctcaata aacactgttg aacgaatgaa tgagtggctc taggtactgt 1320
caacaaatgc cgcattttgc gcatttacaa cagctgttta tggtaaggaa ttatgtaata 1380
aaaagagaaa actcacttaa      1400

```

<210> 25

<211> 643

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (603)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (619)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (634)

<223> n equals a,t,g, or c

<400> 25

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tagtgatcc cccgggctgc aggaattcgg cagagcttc aagggtactt cgcggactgg 120
aacgctggcc gcgcaggccc tgagggtcgc cggccccagt ggcgcggccg cgatgcgctc 180
catggcatct ggaggtggtg ttccactga tgaagagcag gcgactgggt tggagaggga 240
gatcatgctg gctgcaaaga agggactgga cccatacaat gtactggccc caaaggagagc 300
ttcaggcacc agggaaagacc ctaatttagt cccctccatc tccaacaaga gaatagtagg 360
ctgcatctgt gaagaggaca ataccagcgt cgtctggttt tggctgcaca aaggcgaggc 420
ccagcgatgc ccccgctgtg gagcccatga caagctggtg ccccgagcgc tggcacactg 480
agcacctgca ctaaattact caaaatgtgc tgtaaagttt cttctttcca gtaaagacta 540
gccattgcat tggctccttc tcccataaaa aaaaaaaaaa aaaaaactcn gggggggggc 600
cgnwaccaat tcgncctana gtgatcgtat ttanaatttc act 643
```

<210> 26

<211> 1131

<212> DNA

<213> Homo sapiens

<400> 26

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ctgccatttc ccaaataata actccagatt tcataattcc agtttttaca ttccgttata 60
tttctgttac aaccattccc attcagcctt aaatctgagt cttttttagc agcaactttt 120
ttcctgggat cctccttcgt ggtcttctaa gtcagtgtta gttttgaaat ttttggccct 180
gcataagttc tgcatagcat ctaatgtcaa aatagaacca actggtaatc acagtattat 240
ttagtgtggt ttccatgaca acaaaaatac atacgaagaa aacttctcag gttactatgc 300
```

```

tgaaattcca aaatgtctga gttttgaata gtgatcactt tgttctggta ttgacgcaat 360
tatattagga aaaaagttgg ttgactgttt ttgtttaatt gacttctaaa atgttcaaat 420
tgtctagttc taaaagttta ctaaagtcct agtgcagtta aacatactct tgtttaagtg 480
tgtgttgcta aattttttac tgtcattact aaataatctg tgtggcaaaa tgtgtgtcag 540
cacttlyccc tcctttttta tctcctatct tcaggagtca aatgtagcca taaactgtat 600
ccttgcttga cacttttagct aaaaatttcc agttagggga gtttattgcc aaattaaatt 660
tggtgtttcc ccccaaccca tatagatatt aaggaagggt tacttaaaaa atgtttggac 720
tgctttttaa acctgagcaa tgtcattaat ccataatgtgg actagtgatg aatagatatt 780
ttcataagag tttaaagct gatatttggt ggaagtagag agtaactcat attctatcaa 840
ttcaagtatt cttactatgg ttgctttccc tatttgttca atagactgat aatactggaa 900
tttatagagt ttgagccatt acaacttttg tgaggatgtg ttcaaacaat ttctggacaa 960
atcttatttt gtatttcttg aagaatgtag taatcttcta gaccgcttaa aaccaatgct 1020
cccaagctga atattcttga gaaatttggt tttattatgc cattgacatt caatcagtgc 1080
tcataacag taacttgtga tagraattgt attttattgc ttttgggtta t 1131

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<210> 27
 <211> 164
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (161)
 <223> n equals a,t,g, or c

```

<400> 27
cccacgcgtc cgcccacgcg tccgcaaata atggacctga tgttcaggaa cttggaagaa 60
acatgatagg aaaattgctg accaggaaat ttgggaaaga ggcattgtcaa tagacctttc 120
tttttttttt tttttttttt tttttttttt tttttttttt naaa 164

```

<210> 28
 <211> 660
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (37)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (39)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (89)
 <223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (627)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (653)
<223> n equals a,t,g, or c

<400> 28
ccgggagctg ggcgacgggc ctggcgagcg aactcgngng tctcactcag gcaccagccc 60
ctccttgccc caggcttgag tgactcacng ccctattcag gcaggagctg ctcttctggg 120
gtatcgcgat ccaacttaagg atgaggcaga cttggtgaca agctgggtctg agcagggtatg 180
ggagccccct ggggagacgg aagaagggag gaagttgcct tctgcctggg gagggtttga 240
gagggagagg gaagcctagg gctcccacca aggctgatat tgacagccag gggttggggc 300
tgaagccagg aaccgtcrct ctctctggtt cttactggta gccctcatgg ggggccctga 360
cgccagagcc tccaaggctg catgtgccag cccagggtg cccacatacc catgtatatc 420
ccagaatagg caccagggta gggaacccaa actagcatga gtgacagagc aggtgggtcag 480
ggagaaacag acatcaaacc cagccaggag agagacaccg caacagagag acagagaagg 540
gaaaccagag acgagaggga aatgagacag agacggacag agcttcagag agtwaggaat 600
gagcccaggg aaggttgaca gttgatngag aaaagcagca gacagagcag agnattcttg 660

<210> 29
<211> 3136
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1467)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3061)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3089)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3111)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3113)
<223> n equals a,t,g, or c

<400> 29

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gccacgcgt cckcttttcc tccaaaggag tgcttgtgga gatcggatct tttctccagc 60
aattggggga aagaaggctt tttctctgaa ttcgcttagt gtaaccagcg gcgtatattt 120
tttaggcgcc ttttcgaaaa cctagtagtt aatattcatt tgtttaaatc ttattttatt 180
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<211> 2248

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (2220)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2247)

<223> n equals a,t,g, or c

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<210> 31

<211> 2047

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2011)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2033)

<223> n equals a,t,g, or c

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<210> 32

<211> 1835

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1801)

<223> n equals a,t,g, or c

<400> 32

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<210> 33
<211> 1299
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (520)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1287)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1291)
<223> n equals a,t,g, or c

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<400> 33
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<210> 34

<211> 3340

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3298)

<223> n equals a,t,g, or c

<400> 34

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```

<210> 35

<211> 1490

<212> DNA

<213> Homo sapiens

<400> 35

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gggcctggct cctgggagtc ccgctctgct gtgccgccga actgtccgtg aactccttag 180
agaagtttca ctcaagtca tggatgtcta agcaccgtaa gacctacagt acggaggagt 240
accaccacag gctgcagacg tttgccagca actggaggaa gataaacgcc cacaacaatg 300
ggaaccacac atttaaaatg gcactgaacc aattttcaga catgagcttt gctgaaataa 360
aacacaagta tctctggtca gagcctcaga attgtctcag caccaaaagt aactaccttc 420
gaggtactgg tccctaccca ccttccgtgg actggcgaa aaaaggaaat tttgtctcac 480

```

```

ctgtgaaaaa tcaggggtgcc tgcggcagtt gctggacttt ctccaccact ggggccctgg 540
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```

<210> 36

<211> 2855

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1164)

<223> n equals a,t,g, or c

<400> 36

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tatggctccc agcagccccc ggcccgcgct gccgcactc ctggtcctgc tcggggctct 120
gttcccagga cctggcaatg ccagacatc tgtgtcccc tcaaaagtca tcctgccccg 180
gggaggctcc gtgtggtga catgcagcac ctctgtgac cagcccaagt tgttgggcat 240
agagaccccg ttgcctaaaa aggagttgct cctgcctggg aacaaccgga aggtgtatga 300
actgagcaat gtcaagaag atagccaacc aatgtgctat tcaaactgcc ctgatgggca 360
gtcaacagct aaaaccttcc tcaccgtgta ctggactcca gaacgggtgg aactggcacc 420
cctcccctct tggcagccag tgggcaagaa ccttacccta cgctgccagg tggagggtgg 480
ggcaccgccg gccaacctca ccgtggtgct gctccgtggg gagaaggagc tgaaacggga 540
gccagctgtg ggggagcccg ctgaggtcac gaccacggtg ctggtgagga gagatcacca 600
tggagccaat ttctcgtgcc gactgaaact ggacctgcg cccaagggc tggagctgtt 660
tgagaacacc tcggccccct accagctcca gaccttgtc ctgccagcga ctccccaca 720
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```

```

gcttggggga acccattgcc cgagctcaag tgtctaaagg atggcacttt cccactgccc 1380
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```

<210> 37

<211> 990

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (976)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (990)

<223> n equals a,t,g, or c

<400> 37

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cctccagcat ttgtttctgg aaggagtcaa caccaacagc tctgacctgg gcagccttcc 120
tgagaaaatg cagccattcc tcctcctgtt ggcccttctt ctgacctctg gggctgggac 180
agaggagatc atcggggggc atgaggccaa gccccactcc cgcccttaca tggcctttgt 240
tcagtttctg caagagaaga gtcggaagag gtgtggcggc atcctagtga gaaaggactt 300
tgtgtgaca gctgctcact gccagggaag ctccataaat gtcaccttg gggccacaa 360
tatcaaggaa caggagcgga cccagcagtt tatccctgtr aaaagacca tccccatcc 420
agcctataat cctaagaact tctccaacga catcatgcta ctgcagctgg agagaaaggc 480

```

```

caagtggacc acagctgtgc ggctctcag gctacctagc agcaaggccc aggtgaagcc 540
agggcagctg tgcagtgtgg ctggctgggg ttatgtctca atgagcactt tagcaaccac 600
actgcaggaa gtgttgctga cagtgcagaa ggactgccag tgtgaacgtc tcttccatgg 660
caattacagc agagccactg agatttgtgt gggggatcca aagaagacac agaccggttt 720
caarggggac tccggggggc ccctcgtgtg taaggacgta gccaaggta ttctctccta 780
tggaacaaca aaagggacac cyccaggagt ctacatcaag gtctcacact tcctgccctg 840
gataaagaga acaatgaagc gcctctaaca gcaggcatga gactaacctt cctctgggcc 900
tgaccatytc tgggacagag gcaagaatyc ccaaggggtg ggcagtcggg gttgcaggay 960
tktawtaatg gttttntggt gttaaaaaan 990

```

<210> 38

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<400> 38

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cccgggtcga ccacgcgtcc ggactcagag acggaaccag agacaggcca gagcatcccc 60
ctctccacc atgaaactcg ctgtcaccct caccctggtc aacttggtc tctgctgcag 120
ctccgcttct gcagagatct gcccgagctt tcagcgtggt catcgaaacc ctctcatgg 180
acaccacct cagttatgag gctgccatgg aacttttcag ccctgatcaa gacatgaggg 240
aggcaggggc tcagctgaag aagctggtgg acaccctccc ccaaaagccc agagaaagca 300
tcattaagst catgggaaaa aatagcccaa agctcactgt gttaattagg catttttagga 360
agcttgaaga tcccccaact gggtccagcc tcttgccgtt gccatggttt ttggagttcc 420
acggnccacc agc 433

```

<210> 39

<211> 926

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (900)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (920)

<223> n equals a,t,g, or c

<400> 39

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ttcaaaantc agtttaggtg acactataga aggtacgcct gcasgtaccg ktccggaatt 60
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aagaggtcct gatggagagc ccgccggact actccgcagc tccccggggc cgatttgga 180
ttccctgctg ccagtgcac ctgaaacgcc ttcttatcgt ggtggtggtg gtggctctca 240
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accagcagct gctgatcgcc tacaagccag ccctggcac ctgctgctac atcatgaaga 480
tagctccaga gagcatcccc agtcttgagg ctctcactag aaaagtccac aacttccagg 540
ccaagcccg agtgccctacg tctaagctgg gccaggcaga ggggcgagat gcaggctcag 600
caccctccgg aggggacccg gccttcctgg gcatggccgt gagcacctg tgtggcgagg 660
tgccgctcta ctacatctag gacgcctccg ggtcagtga agccccaacg ggaaaggaaa 720
cgccccgggc aaaggttctt ttgcagcttt tgcagacggg caagaagctg cttctgcccc 780
caccgcagga caarccctgg agaaatggga gcttggggag aggatgggag tgggcagagg 840
tggccccagg ggccccggaa ctctgccac aacagaataa agcagcctga ttgaaaagcn 900
aaaaaaaaa aaaaaaaatn gcccc 926

```

<210> 40

<211> 406

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (318)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<400> 40

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catgctagga gtggaaggca ttcttcttag gctacttggg tatcaggaga ccagccctt 120
tccctgtgaa tatttgattt tacttcttgt gagtgttcag ctctgctta acaacaggca 180
acatgaagag tgagattgga ggtgagaagg tacttatctg ctgcttggtga gcaagggaat 240
aagttgagag ccaagagcag cctgagcatc tttgtcctga cgatgggsta aggttcccag 300
cccytcytc cgaggaancc gaatgtkaag ggaactgaaa gacgcacctg ccaagcctga 360
aagtctccgt catccaagg ccaccaacaa cggcancatn ccctta 406

```

<210> 41

<211> 1501

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (996)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1488)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1495)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1498)
<223> n equals a,t,g, or c

<400> 41
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gacatgtgga cggcgctgct catcctgcaa gccttggtgc taccctccct ggctgatggt 180
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ttccacacgg cccgggaaat ggccaatgcc aaggagatcg ctcggaactgt gcagatcctg 300
ggtgcagact tcacctgtc tctaggggac aatttttact tcaactggtgt gcaagacatc 360
aatgacaaga ggttccagga gacctttgag gacgtattct ctgaccgctc ccttcgcaaa 420
gtgccctggt acgtgctagc cggaaaccat gaccaccttg gcaatgtctc tgcccagatt 480
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aatttcatgg acccctcaaa gcggcaccag cgcaagggtcc ccaacggcta tctgcgcttc 960
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atgactgtca cttacatcga ggccctcgggc aagtccctct ttaagaccag gctgccgagg 1080
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cagcagggca ggaaggggaa acacagctga tgaactgtgg tgccacatga cccttgaggc 1260
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ttcctcctaa atcaagcatc tttctgttac tgatgttcaa taaaagaata gttgccaagg 1440
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g 1501

```

<210> 42

<211> 1574

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1029)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1076)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1574)

<223> n equals a,t,g, or c

<400> 42

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tatttccagg aaaggaaggg ggctggctcg gaggaagaga ggtggggagg tgatcagggt 120
tcacagagga gggaactgaa tgacatccca ggattacata aactgtcaga ggcagccgaa 180
gagttcacia gtgtgaagcc tggaagccgg cgggtgccgc tgtgtaggaa agaagctaaa 240
gcacttccag agcctgtccg gagctcagag gttcgggaaga cttatcgacc atggagcgcg 300
cgtcctgctt gttgctgctg ctgctgccgc tgggtgcacgt ctctgcgacc acgccagaac 360
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```

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gactcaaaact gccttggttt caggggagtc ccgtcaggac gttgaggact tttcgaccaa 1500
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aaaaaaaaaa aacn

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<210> 43

<211> 2196

<212> DNA

<213> Homo sapiens

<400> 43

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ggcacgagga aacacagagc tttagctccg caaaaatgaa acactcatta aacgcacttc 60
tcattttcct catcataaca tctgctggg gtgggagcaa aggcccgctg gatcagctag 120
agaaaggagg ggaactgct cagtctgcag atccccagt ggagcagtta aataacaaaa 180
acctgagcat gcctcttctc cctgccgact tccacaagga aaacaccgtc accaacgact 240
ggattccaga gggggaggag gacgacgact atctggacct ggagaagata ttcagtgaag 300
acgacgacta catcgacatc gtcgacagtc tgcagtttc cccgacagac tctgatgtga 360
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tcaacgccaa gtctgstttc aacctctacc gagtgtgaa agaccaggtc aacactttcg 480
ataacatctt catagcaccg gttggcattt ctactgcat gggtatgatt tccttaggtc 540
tgaagggaga gaccatgaa caagtgcact cgattttgca ttttaaagac tttgttaatg 600
ccagcagcaa gtatgaaatc acgaccatc ataactctt ccgtaagctg actcatcgcc 660
tcttcaggag gaattttggg tacacactgc ggtcagtc aaacacacac atccagaagc 720
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<210> 44

<211> 3785

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<400> 44

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<210> 45

<211> 480

<212> DNA

<213> Homo sapiens

<400> 45

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cgaagagaga cagaagagag gctgggawtc cgttcagcag agcatcacca tggtcaggag 420
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<210> 46

<211> 1010

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (844)

<223> n equals a,t,g, or c

<400> 46

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<210> 47

<211> 3773

<212> DNA

<213> Homo sapiens

<400> 47

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<211> 1462

<212> DNA

<213> Homo sapiens

<220>

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<222> (952)

<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (1391)
 <223> n equals a,t,g, or c

<220>
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 <222> (1458)
 <223> n equals a,t,g, or c

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<210> 49
 <211> 561
 <212> DNA
 <213> Homo sapiens

<400> 49
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gatgtacagt taccagcac g

561

<210> 50

<211> 1211

<212> DNA

<213> Homo sapiens

<220>

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<222> (1189)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1191)

<223> n equals a,t,g, or c

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<210> 51

<211> 1600

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<220>
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<222> (1235)
<223> n equals a,t,g, or c

<220>
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<222> (1567)
<223> n equals a,t,g, or c

<220>
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<220>
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<210> 52

<211> 1568

<212> DNA

<213> Homo sapiens

<400> 52

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cctctcaaga gaagtggatg cattaanaa gaaaattcat gaatacatgg caactgaaga 480
cctaatatgt cacctccagg gagatcactc agtcctgcaa aaaaaactaa atcaacaaga 540
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1568

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<210> 53

<211> 1043

<212> DNA

<213> Homo sapiens

<400> 53

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tgtgcaccag ggtctacgtc cgagagttag tggccacagg tagaaccgcg gccgaagccc 600
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<210> 54

<211> 2571

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2556)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2570)

<223> n equals a,t,g, or c

<400> 54

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<210> 55

<211> 1302

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1301)

<223> n equals a,t,g, or c

<400> 55

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<210> 56

<211> 1437

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1428)

<223> n equals a,t,g, or c

<400> 56

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<210> 57

<211> 2033

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1012)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1014)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1016)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1964)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2029)

<223> n equals a,t,g, or c

<400> 57

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<210> 58

<211> 1832

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (423)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1778)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1805)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1814)

<223> n equals a,t,g, or c

<400> 58

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accaccagga ggtgatcctg gtgcagacgc gcgaggaggt ggtggcgggc gacgactcgg 180
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gcggcgggcg cggytcgttc gtcgtcgga ggcgnccgcg tcaagaaggc cggcggnaaag 360
aagagcgcca agaagagtta cctcagcggc gggggcgcg gcggcgggcg sggcgcaccc 420
ggngcaacaa gaagtgggag cagaagcagg tgcagatcaa gaccctggag ggcgagttct 480

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tgtatcgtat agctgtattg aatccatgta ggtatccaaa tattaggatg tgatttaata 1740
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<210> 59

<211> 1406

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1382)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1399)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1400)

<223> n equals a,t,g, or c

<400> 59

gaagttaaag gcaaaaattgt aaatcagtcg agatcgggtg ccttcagggt ggtatggctg 60


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ttggagcaaa acaaggaagc aaagcaata cwgtttttga aattctatct gttgcttgaa 900
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attaggtaaa tgttttacia attactgttt ctacttttca gtcataccct aatgatccca 1200
gcaagataat gtcctgtctt ctaagatgtg catcaagcct ggtacatact gaaaacccta 1260
taaggtcctg gataattttt gtttgattat tcattgaaga aacatttatt ttccaattgt 1320
gtgaagtttt tgactgttaa taaaagaatc tgtcaaccat caaaaaaaaa aaaaaamcc 1380
wngggggggg ggncccccann ccccc 1406
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<210> 60

<211> 265

<212> DNA

<213> Homo sapiens

<400> 60

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gcgcctccat tgcgctctcc tyttcactta ggacactggt cctcccacgc ctgacaycga 180
cgtcgccagg accgcggggg tkggggaamt ttggctgtcc caygtcttcc aaataaagct 240
gttttgtcta actcaaaaaa aaaaa 265
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<210> 61

<211> 937

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (882)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (890)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (923)
 <223> n equals a,t,g, or c

<400> 61
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 caacacagca gcaatggcaa tttggcggac ttctgcgctg ggccagcgta tagctcttac 180
 tccacactca ccggcagcct tacgatggac gataatagaa ggattcaaatt gctagcagac 240
 acggtggcta ctctgcctcg gggacgaaag cagcttgctt tgaccagatc aagttcttta 300
 agtgactttt cctgggtctca aagaaagctt gttactgtgg agaagcagga taatgaaaca 360
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 aatgggtgga gtacagatct ctgcagttac aggaacatcg tctgcttcat ggtgatgcag 720
 ctaattgccc cagtttgga aaacatggga cttgggatgg aattgtcttt gtttggacct 780
 ctgcctgggc cagggccagc ccttgtggac cggaatcgat tatccagtga gagcagctgt 840
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 cttaaggact ccagcagggg ggnccctcaa atcgggc 937

<210> 62
 <211> 712
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (672)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (697)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (707)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (711)
 <223> n equals a,t,g, or c

<400> 62
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gggagtgggg ggcccagcsc ttctyttctc ccccgccaaa ccacagtggg agctggggca 180
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tagtgccctt tggggatatcc aggaacaccc tcccagcagg ggatgggaac cctgtcccat 300
gaagccctct cctcagcttt acttgctccc ccgcccttag ccttggggag aaatggcccg 360
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gcatcagggt ctggtcctcc tccctcctgg cctcgacccc taagggttc scccctcca 480
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<210> 63

<211> 1058

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1026)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1048)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1051)

<223> n equals a,t,g, or c

<400> 63

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atcttacttt ttcttctcar atttctccct tcctagaaca ttctctctgt ttagcactaa 180
tgttcacctc gtattttttg gaagtgcaa aatctcaatt tgtgtctgtt tacagctctc 240
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gatgttaagg caagcctcag catctgcccc ygctgggtgc acaatgctgc ttctcgaag 360
agaagacaca gagtccaagt ggcaggactt gaggttggct tccactctgc cttagaagtt 420
aattttccaa agtacattac aaatctctga ggccattagg ggaaaaggaa ggggtgtggt 480
ttgtctttga aattacggtt aatactttta gacagtaagt ccggctggtt gcagggtat 540
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ccctggccag aggacataaa tgggtgctggt aggaggttat cagagtaagg aaggtagcag 660
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<210> 64
<211> 2691
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2653)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2667)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2683)
<223> n equals a,t,g, or c

<400> 64
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aagggtgata tggggcctcc aggagttcca ggatttcaag gtccaaaagg tcttcctggc 180
ctccaggga ttaaagggtga tcaaggcgat camggcgctc cgggagctaa aggtctcccg 240
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cctggccaga aaggagagat gggacctgcc gggcctactg gtccaagagg atttccagg 480
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tccactgtta aaataaagct tacatagttt tcttcctttg aaagactgtg ctgtccttta 1980
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<210> 65

<211> 1517

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (138)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (548)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1380)

<223> n equals a,t,g, or c

<400> 65

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tcagcgtgac ctggacctgc tgggcaggat cccagggtga acctgcctgt gaactctgaa 780
gtcactagtc cagctgggtg caggaggact tcaagtgtgt ggacgaaaga aagactgatg 840

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<210> 66

<211> 1128

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1009)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1071)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1075)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1079)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1085)

<223> n equals a,t,g, or c

<400> 66

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aaaataagga cttgattgtc aggcctatat taggttctga accttaatgc catgtatttg 180
tacttactaa aaattgtttc aatgaaaagt acattagcag tatgaacttc tgggtccagtt 240
ggaagttttt ccatttgaaa aatgtgatgt ttgcatggaa ctgtttgaaa cttttttatt 300
ttctagtccc cctccccccac actggataga atttagccta gaattttccc tttggataaa 360
agaacaaaaa ttgaacatgt tatttgtaaa ttgatgttta gtaattagtg ataaacttga 420

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aatactagca tatattataa gccttaatct taggtagtct tatgaaaatg aatctcttaa 480
ctatcttttg aacctgtatt cacattgggt ttcaagatat ttttaagttat attttttcct 540
cttttcagag ctgcttctta ttctggggct actttttttt twagtttgtt aattcacaaa 600
gggctgcatt tttttttttt ttttaataagg cttataacta tggctggatc ttttgctcta 660
gtcttctaag aagggccatt ttatttttta gagtcacttc taaagtcatg tggtaattaa 720
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gcatgtcacc ctatgaatgt tgacaatgga aggaatacct tgcctgtagt atactgtcac 840
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<210> 67

<211> 1028

<212> DNA

<213> Homo sapiens

<400> 67

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```

<210> 68

<211> 2133

<212> DNA

<213> Homo sapiens

<400> 68

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aagcccaaca agaggaaagg gttcagcgag gggctgtggg agatcgagaa caaccctact 300
gtcaaggctt ccggctatca gtccctccag aaaaagagct gtgtggaaga gcctgaacca 360
gagcccgaag ctgcagaggg tgacggtgat aagaagggga atgcagaggg cagcagcgac 420

```

```

gaggaaggga agctgggtcat tgatgagcca gccaaaggaga agaacgagaa aggagcgttg 480
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actcgagggg gggcccgtag ccaatcgccc tag 2133

```

<210> 69

<211> 1636

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<400> 69

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acggtccaaa agaatacagaa tttgaggtgt tttgttttca tttttatttc aagttggaca 180
gatcttgagg ttgccactgt agtatgcaa ccaaatgagt tcataatgcc ggacagcgcc 240
gtcgttgagg acgtgctggt gtttaaccaa ccgttaggaa cccargttgc tgtcaatgcc 300

```



```
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gcagggtttaa tgcacacatt taatgcccat gcggccacag atatcacagg ctttggcatt 480
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aaaaaagggc ggccgc 1636
```

<210> 70

<211> 1465

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (916)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1459)

<223> n equals a,t,g, or c

<400> 70

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ccttcagtca cactcacttt ttccttggt atgttattga gtatattctg agcttagttt 1440
tctctacagt gatatttant ggaga 1465

```

<210> 71

<211> 1772

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1728)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1752)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1756)

<223> n equals a,t,g, or c

<400> 71

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aggagaccac tgctgacaga tacacagaga agagatcaga gaggaaaaac tgggaagaca 180
taaataaatt ataccagcc atgaaacaat gccaaactgtc tcttcctaa ggaagagtac 240
aagtacccta aaattgaaag gtggtcccta cactgaaaac gcacatagtt tgtcaaaagt 300

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ttgtactgga aggaaatatt ttctggactt aagtagttgc ctaaatttaa gattcctaca 480
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gatgttttaa aaggtaaaaa aaaaaaaac tcgggggggg cccgggancc aaatcgcccc 1740
aaaggggggc gnatanaatt cccggggccg gg 1772

```

<210> 72

<211> 1163

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (433)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1163)

<223> n equals a,t,g, or c

<400> 72

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ccgggacagt ggctctgacg gcgttactga ttgtgctgct cacatctgtg gtccagggca 180
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acgagctggr cgnngccert gaccctgcag cgcagagtc agcctarggt gaaygtttcc 480
ccctccaaga aggggcccct gcagcaccac aacctgcttg tctgccacgt gacrgatttc 540

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```

<210> 73

<211> 2922

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2884)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2903)

<223> n equals a,t,g, or c

<400> 73

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```

<210> 74

<211> 1578

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (267)

<223> n equals a,t,g, or c

<400> 74
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<210> 75
<211> 3233
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1088)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2749)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3201)
<223> n equals a,t,g, or c

<400> 75

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cctgggggtg ctggcccccc tgggaattac ggattccagc gattcatagg aagccggggt 420
gacaaaaggc cccagggag agcaggcctg tatggcgaga ttggcgagc tggtagtttc 480
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```

ccccactgcc ccacsttgtc cctgagattt aaccctcca ctgctggggg tgagctgtac 3120
tcttctgact gccccctcct gtgtaacgac tacaaaataa aacttggttc tgaatatattt 3180
taaaaaaaaa aaaaaaaaaa naaaaaaaaa aaaaaaaagc aaaacaaaaa ggg          3233

```

<210> 76

<211> 1670

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<400> 76

```

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tatgggggga ggggagagca aacctatcga atatatctta gaattttgct cagaaatcac 120
tgctgcctct caagtgttgc attgtccctg cctaaaccaa gaaggctaaa caaagcccct 180
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aatgatagtg gagctcattt acaaataggc atgcctcaca cacacagtcc aaaggcaaga 300
cactggcttt gaaattaggc tcatgatgtg attcctatta tatgtacctg attttttttag 360
gccccaggta tgtggaccag agttaatgtc atgactcttc aaagatatga tgaaaagtgtg 420
ccctagaaat ctagagatgc atgtttatct aattccatag tttaaaaaaa aatttaagca 480
ggtagttgtg gcttatcttg gggcaaaata atatatgtga aattgcttcc agaggacaaa 540
gtatatcttc taaagtctct aaataggatc atgaaccctt ctgaagtttt ggtttgaaat 600
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tcagktcttg cgttttatat taggtaacag ttttgtgatg cttttgtgcr ttctttgtca 1620
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```

<210> 77

<211> 1177

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1155)

<223> n equals a,t,g, or c

<400> 77

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gtgaccaccc aggccgggaa cagcagcgag caggccatac cacaggcaat gctccaggcc 120
tgktktggct cctggctgga cagggaaaag tgcaagcaat tkttgagca gcacacgccc 180
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cacacctacc acgacctccc agggctgggc tcaggaaaaa ccagccactg ctttacagga 660
caggggggtg aagctgagcc ccgcctcaca cccaccccca tgcactcaa gattggattt 720
tacagctact tgcaattcaa aattcagaag aataaaaaat gggaacatac agaactctaa 780
aagatagaca tcagaaattg ttaagttaag ctttttcaa aaatcagcaa tccccagcg 840
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cctgtgtaat acaatgtctg caccartgct aataaagtc tattctcttt tatgagaaaa 1140
aaaaamaccc ttccntttaa agtgctgca gttttg 1177
```

<210> 78

<211> 829

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (685)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (822)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (825)

<223> n equals a,t,g, or c

<400> 78

```
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ggggcaacca ggggaagatg ggggtgctgga ggagagcttg tgggagccaa ggagcacctt 120
ggacatcttg agtctggcag gagtgtgac ggggtggagg gctagctcga ggcagggtg 180
gtggggcctg aggccagtga ggagtgtgga gtaggcgccc aggcacgtg cagacagggc 240
gacatcagct ggggacgatg ggcctgagct agggctggaa agaaggggga gccaggcatt 300
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```

catcccggtc acttttggtt acaggacgtg gcagctggtt ggacgagggg agctggtggg 360
cagggtttga tcccagggcc tgggcaacgg aggtgtagct ggcagcagcg ggcaggtgag 420
gaccccatct gccgggcagg tgagtcctt cctccccag gcctcgcttc cccagccttc 480
tgaaagaagg aggtttagg gacgagggc tggcggggag aagcagacac cctcccagca 540
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gggagcacag gggtggccag cgtanggtcc agcttgccac cttcacccac cgcaatttca 720
ttttagttag caaggcacia gggcagcttc cggcacggct ttcttcaagc cttattgccc 780
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```

<210> 79

<211> 1143

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1126)

<223> n equals a,t,g, or c

<400> 79

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ggaccagga cactacagtt tctctatgcg atctccagag ctcgctttac cccggggaat 180
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gatggcccat ggcaccacca cgctcgctt caagtccag catggagtga ttgcagcagt 300
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gattaaccct tacctgcttg gcaccatgtc tggctgtgca gcagactgtc agtactggga 420
gcgcctgctg gccaaaggaat gcaggctgta ctatctgcga aatggagaac gtatttcagt 480
gtcggcagcc tccaagctgc tgtccaacat gatgtgccag taccggggca tgggcctctc 540
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tctgcgtgtt ctctatttga acaagcattt cccccaggga agtttctggg tgccccacta 1080
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gta 1143

```

<210> 80

<211> 1226

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1223)

<223> n equals a,t,g, or c

<400> 80

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ctaacttacc acatgcttgg tgtactatat gtaykwtgtg cctcatatgt tgcaaagaac 120
taaggtgagt atagcctact agatatgggc aatatccagc ctagatgatt ggaaagatac 180
cagtttaagt aaacttggtg aaatccaagt cttttttttt ttttttccag gaacaactac 240
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gagagcccca caaaactttg gggacaaggg agagagagac tcatctgaca cttcttttgg 360
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tgtgagtga cctagaacag cactgaagta ttacataacc tggaagactg agaagggtat 480
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aatttccttt gtattttttt aagaaaatat taaaaatcaa cgggtctcaa aaaaaaaaaa 1200
aaaaaaaaaa aaaaaaaaaa aancct                                     1226

```

<210> 81

<211> 574

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (359)

<223> n equals a,t,g, or c

<400> 81

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actctctggc ttgggagttt gtctcccctg ctctagactg tcagcaagtg gtacagtgg 120
acagtacagt ggtactgccc aactgcactt ctctgcaagg tgattctagt gtgcacttgt 180
cagaatgaaa atatgttatt catttaagac atctcatgtc tttgaatgta atcacatgat 240
ttgtatttaa tatttacatg acctaatat tttttcacgt cagtttttct arattggcaa 300
tagcctgttg caaagtgcc taaaccttga graaaattac tatgarcaag gtccatgant 360
ttagttttcc aatataaagg gaattccmth ctatactgta aatccaaaaa tgctagtgtc 420
cctcagcttt tgagttgact tccagaaagt tgaratcttt tgaccatttt ttctcatgtc 480
atataaaatg tgccacatgg ttarttgtca agctgtggtg gtcagtgtaca ctttkkkkct 540
tttttttaac tttctaaaaa gaaaagttca aagt                                     574

```

<210> 82

<211> 2043

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (1980)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1982)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2043)
<223> n equals a,t,g, or c

<400> 82
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ggccgcccga gggactttga acatgtcggg gatcgccctc agcagactcg cccaggagag 180
gaaagcatgg aggaaagacc acccatttgg ttctgtggct gtcccaacaa aaaatcccga 240
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ggcaagaact tgtttacaac atttttgcaa atctaaagt tctccataca atgactagtc 720
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cgctgaattg cccgtttcca tacagggtct ctctcttcgg tcttttgtat ttttgattgt 840
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gan 2043

<210> 83
<211> 1056
<212> DNA
<213> Homo sapiens

<220>
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<222> (928)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (941)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (997)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1044)
<223> n equals a,t,g, or c

<400> 83
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<210> 84
<211> 2099
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature

<222> (1846)

<223> n equals a,t,g, or c

<400> 84

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gcgggtggga aaatagtatt tactctgggc cgagaggtct gagccccgag gagctctttc 2040
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<210> 85

<211> 3103

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<400> 85

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cagctgatgg agaaagaagc attataaata atatacataa actcagtttg tacagataat 180
ccgtaatttt taatgtttta cttgtctaaa tgctatatgt aatatctttc atcagttttt 240
ttaaagtaat tatcctttca tattggtttt ttcccaccaa ataaaacccat tanaggacca 300
gagatcaaga agcccarag gatgtacaag tcaggccaga ggatactcct tcagatctca 360
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ccgggaagcc tctaggtgaa attagtgttc cactggacag ctctttactt tgtactttgt 480
cctcagaatc tcaccaggaa gcagctagta atgagaatga taaaaacyt ggtaactaca 540
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aattgtataa ctccctccat ttctggagga ctccctcttc tgaaatagat ctagacatag 660
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aactcgaggg gggcccggtg cccaaatcgc cgatatgatc taa 3103
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<210> 86
<211> 901
<212> DNA
<213> Homo sapiens
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<400> 86
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<210> 87
<211> 559
<212> DNA
<213> Homo sapiens
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<400> 87
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gcaaatgaaa gtaaaaaggct ctaatacaac ctataaggac tgcaaagtat ggccaggggg 240
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gcgggtcctc cagacagagc aggcagtga ggagtataat gccttggttg ccaaggggtc 480
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taagtgcwa aaaaaaaaaa 559
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<210> 88
<211> 2287
<212> DNA
<213> Homo sapiens
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<220>
<221> misc feature
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<222> (2204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2275)

<223> n equals a,t,g, or c

<400> 88

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<210> 89
 <211> 607
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (535)
 <223> n equals a,t,g, or c

<220>
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 <222> (541)
 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (547)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (592)
 <223> n equals a,t,g, or c

<400> 89
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<210> 90
 <211> 2338
 <212> DNA
 <213> Homo sapiens

<220>
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<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2334)
<223> n equals a,t,g, or c

<400> 90
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cacatagctg atctgaaaaa ggaaatcgag atcttaagga acctctatca tgagaacatt 240
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<210> 91

<211> 1274

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1264)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1268)

<223> n equals a,t,g, or c

<400> 91

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aaangggngg ccgc 1274

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<210> 92

<211> 1411

<212> DNA

<213> Homo sapiens

<400> 92

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tgggctggtg ggtgtgggca cagccctggc cctggccsgg aagggtgtcca actgggcctg 180
gtggcattcc ggcgccatta catgatcaca ctggaagtcc ctgctcgaga caggagctat 240
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cctggaaaacc attttatctg gtatcggggg aaatggattc gggtagaacg aagtcgagag 420
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aaaaaaaaa aaaaattcgg ggggggcccc g                                     1411
```

<210> 93

<211> 729

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (69)

<223> n equals a,t,g, or c

<400> 93

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ttcataagta aattttatat tgattaagtt aaacttttga attgatttga ggagcagtaa 180
aatgaaagct atatctattc taaaccttat ttagacattg gtaccagtta cccaggtgaa 240
aatatggagt aactttgttt tgtatggtaa ggtttaggaa tgggtggatga agggatatctc 300
tatataaata aagtgtctca caatgtgcaa tgattgtaaa tttagtaaga tattacagcc 360
```

```

atttcatgaa tgctttacca ttcaacatag tatctattac aaaacacctt tcttgtatcc 420
atatacttca ggtgttgctg ttaacattta ctatgatatt tattttaacc aaaatgttac 480
tcacatttaa tgtttattct ttaaaatgaa tgtattatgt ttttaacca caaatgcata 540
cttaccctgt gcctcatatt tcaatagtag tgtaatatgg acatcttttg tgaaatactt 600
ttattttgtt atgctttaaa tatacatata aaaagatttc tgttattagc tttgaaaatt 660
gtataatatc ctaatatata caaaaatata aaaataaaaa tgaatacagt aaaaaaaaaa 720
aaaaaaaaa

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<210> 94

<211> 1795

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (213)

<223> n equals a,t,g, or c

<400> 94

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ggatgataca ccactgactt tctttgtttg gaatacacgt tatgaaccct ttctggagca 180
tgtctacaag ctctgtacgc aaacgatctg aangtgaaga gaagacatta acaggggacg 240
tgaaaaccag tcctccacga actgcaccaa agaaacagct gccttctatt cccaaaaatg 300
ctttgcccac aactaagcct acatctcctg cccagcagc acagtcaaca aatggcacgc 360
atgcgtccta tggcccttct acctggaata ctctcttctt gcagaattta ccttggttgt 420
gaagcagaag ctaccaggcg tctatgtgca gccatcttat cgctctgcat taatgtggtt 480
tgagtaata ttcatacggc atggacttta ccaagatggc gtatttaagt ttacagttta 540
catccctgat aactatccag atggtgactg tccacgcttg gtgttcgata ttcctgtctt 600
tcacccgcta gttgatccca cctcaggtga gctggatgtg aagagagcat ttgcaaaatg 660
gaggcggaac cataatcata tttggcaggt attaatgtat gcaaggagag ttttctacaa 720
gattgatata gcaagccccc tgaaccaga ggctgcagta ctgtatgaaa aagatattca 780
gctttttaa agtaaagttg ttgacagtgt taaggtgtgc actgctcgtt tgtttgacca 840
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<210> 95

<211> 757
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (719)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (743)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (749)
 <223> n equals a,t,g, or c

<400> 95
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 tctgagcaca catctaggat ttttgatttc tttctcaa acagtacata ttcmtttttt 180
 ccyaacttag agattgcmaa cctgtgatct ttgaatcaga tctgtgccac aaatttttgt 240
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 gtgaggaaa agtcmagtag yagtcyttta tccycagtgt ccagtgactg tcmagagaaa 420
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 aaagtgaacc ctctgaggca tagtaakgtt ttatttgaaa acatctcaca tgtattgaat 540
 acttagatag gatgtattct gtattactga attttccaga ttattgaagc aatcaccttt 600
 ctgtgtttta agtttttagaa agaaagcttt taaaaatgct taacataaga taagcctgtt 660
 ttcattggtc aaggtccttt ctatgaacat gaatcactgg actctgaagg ttggactana 720
 tccatctacc ttccctttta aangctaang ggctcaa 757

<210> 96
 <211> 888
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (329)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (332)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

<222> (647)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (688)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (780)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (805)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (809)
 <223> n equals a,t,g, or c

<400> 96
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 agcattgtac atttgaaagt agtggtctag actataaaac caatgaactt ctacatgagc 180
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 gtgtataata atttgctagc ccaagcaagc tagttttctt tgcttgcttc ttttctttct 300
 tttttccttc cttttttttt tttttttnt tnttttttaa catggtgaga ttctctagtt 360
 gttttctttg gcgtatctaa ccccttcttt tgttttctga gacctggtaa cccacgctct 420
 tgcattgtgg attttaaaat gtatactctg tacgggtctg taaaccgaaa aacttttgta 480
 aatatataaa tatacataga cataaaaata ctgtatgtga cagcacatag agtagttttc 540
 ccacaccaaa gtttaatttt atgcatgctt taaaagtata tatcgggagc gccagaaatg 600
 gaagtatcca tacattttta aaaagcaaca agtttgcaca gctagantgt ttttgtaa 660
 aaatgtattt gtataacaca gtcattgtnat atacagaact ataagcagaa actttgcaaa 720
 actaaattaa aggctgcatg cttattattt tttgtacctt gtcctataac tacttcctan 780
 tccaagaacg aaatgttact gttancgant ttaatgtttt tccgctttga aggatttacc 840
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<210> 97
 <211> 2551
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (2546)
 <223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2550)

<223> n equals a,t,g, or c

<400> 97

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aaacctctc acagttttca tccagccacg ggccagcatg tctgggggca aatacgtaga 120
ctcggaggga catctctaca ccgttcccat ccgggaacag ggcaacatct acaagcccaa 180
caacaaggcc atggcagacg agctgagcga gaagcaagtg tacgacgcgc acaccaagga 240
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tgaagatgtg attgcagaac cagaaggac acacagtttt gacggcattt ggaaggccag 360
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gttaaaaaaa aaaaaaaaaa aaaaanaaan a 2551
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<210> 98

<211> 1106

<212> DNA
<213> Homo sapiens

<220>
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<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1081)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1099)
<223> n equals a,t,g, or c

<400> 98
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tgggaggaat gggatggagc ctccacctca tggaaagtagc ttcctttgga ggtggctatg 180
gcagggtcttc ggagagaata tgcttttaag gctattaacc aggggtggcct tacatcagta 240
gctgtcagag ggaaagactg tgcagtaatt gtcacacaga agaaagtacc tgacaaatta 300
ttggattcca gcacagtgc tcaattatc aagataactg aaaacattgg ttgtgtgatg 360
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ggaaaaawaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
naaaaaaaaa aaaaaaana aaaaaa 1106

<210> 99
<211> 1268
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (932)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1203)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1207)

<223> n equals a,t,g, or c

<400> 99

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ggcacgagta ggcctctcct gctgctgaat gacaagcctg cgrggaagg cttgattacg 60
atcgctgccc aggagctgtc cgacaaccgc gtcacacac taagcctggc gngcaggagg 120
ctggacaaga aggacctctt tgggaagtca gacccttttc tggagtttta taagccagga 180
gacgatggca agtggatgct ggtccacagg actgaggtga tcaagtacac actggaccct 240
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atccaggcca tgtgctacgg actatgacaa tgacgggggc catgacttca tcggcgagtt 360
ccagacctca gtgtcacaga tgtgtgaggc tcgagacagc gtcccgtgg agttcgagtg 420
catcaacccc aagaagcaga ggaagaagaa gaactataaa aactcgggca tcatcatcct 480
gcgatcctgc aagataaacc gagactactc cttccttgac tacatcctgg gaggtgccca 540
gctcatgttc accgttgaa tagactttac agcctccaac gggaatcccc tcgacccttc 600
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aaattcgg                                     1268

```

<210> 100

<211> 1143

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1143)

<223> n equals a,t,g, or c

<400> 100

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tgaagaaaac atttatcttt tatttgattc ctaggattta gtaaaactta gctgtctatt 120
taaaatgtac tgaggcacia caagtattat actggaagac ttgccaaact ggcaaaagctt 180

```

```
taagttcatc agcattctat gtggttcaga gctgtgattt ttgcaaagta ttttaccaac 240
ctcctcgatg gctttgataa aggttagatt tgatgttttt ttttagattt atttttctta 300
ctccactaaa ctataaagaa aataattact tagaaactcc attttaaata atcatttcct 360
agaaattcctt aaatatatac agaattttta agaaaacatt tcatctgatt tagttagcat 420
ccacatatca ttgaggaatt aaagtgtggg acagtcatta ttaaaaaaaaa gagagaaaag 480
ccctctatta gacattccac aatccatgtt ttaagcttat ccaaagggtcc aaatgtcagc 540
cattctgtat gttcatgttg atcatttgcg aacaagaaag caggtttcta ggtatcactt 600
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tgatgaaact agtttctcag ctaggcttgt actttcctca ttatttctag tatttcaaata 720
attctcaaac aaaagagtta ccacttttct ccattttatt ttagttatgg aaatgttccc 780
tctcttcacc actaagctcc aaagcaaagt aaagacgac acatgtcagg acagtagtaa 840
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tcctttttta aaataaaaaat aaaaacatta ccagggtccc aagccaatct ggcttaacca 960
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aacctttgat aacagtttga cgaaatcaat cttttttttt tttttttggg aagggccctt 1140
ttn                                     i143
```

<210> 101

<211> 585

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (540)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (551)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (585)

<223> n equals a,t,g, or c

<400> 101

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ggaacattga aataaaggaa gtgttcctta gttcccgtgt gaaagcagag gaacccatga 60
catccaaggg cgtgaaagga tcagagctga ctggacatag tgagctgcct tcttgcggtc 120
gggtgcaccc ctgttaaacc tgatctgtgt cataagtga tccggatgca tcagtgtcca 180
ccagttggaa gcaatgacaa ggatggctgg ctggtgtttt tcagccttcc ggtttataga 240
ctgtatttat ctagtggatt cctgcaggcc ccatactgag cctggactga aagtatccac 300
tcggaccatc tgttatctct ctacactgaa aataaaacct cttccaccca ccccatcgg 360
ttcttctgcc tgacctcaa atgcccatgt tggcctttta cagcagtgcc acggcaccaa 420
gcgagctgcc acatctcaca ctctaaaggg ttgnaacta ttagttcttg tcatttttta 480
aaaaaaacca ttcccaagtt gaaattgntt atatccgtct gntcttgctg gtgtcaraan 540
ctgggttttt ngtggaagg tcccaaaaca aaggcaacac cattn 585
```

<210> 102

<211> 579

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (553)

<223> n equals a,t,g, or c

<400> 102

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gacggctgcg agaagacgac agaaggggag tccccaccto tctcagcttc cggtcggtag 60
tagttccgct tcctgtccga ctgtggtgtc tttgctgagg gtcacattga gctgcaggtt 120
gaatccgggg tgctttagg attcagcacc atggcggaag acatggagac caaatcaag 180
aactacaaga cgcctttagg tgacagccgc ttccccaacc agaaccagac tagaaactgc 240
tggcagaact acctggactt ccaccgctgt cagaaggcaa tgaccgctaa aggaggcgat 300
atctctgtgt gcgaatggta ccagcgtgtg taccagtccc tctgccccac atcctgggtc 360
acagactggg atgagcaacg ggctgaaggc acgtttcccg ggaagatctg aactggctgc 420
atctcccttt cctctgtcct ccaccccttct cccaggatgg tgaaggggga cctggtaccc 480
agtgatcccc accccaggat cctaaatcat gacttacctg ctaataaaaa ctcattggaa 540
aaaaaaaaaa aanaaaaaaa atcggggggg ggcccgtaa 579
```

<210> 103

<211> 405

<212> DNA

<213> Homo sapiens

<400> 103

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tccatccggg tgccccattc cggstccctg ggwgatcagt gttgtragtg catgtraaat 60
gggggatccc caccctcagt gcccttcccc ttctggggc ccactcacac tacacctct 120
tcctttccca cccacctcc ccggagagaa actggacatg gggcctggg aggggagctg 180
gccagaggag gaccctttc ccgtggcatt agaaggggga ggggtggctg gggcccccac 240
ccattcccc tccctccaaa ctccaaccc ccagtcagt tttgagcctc ctggttcccc 300
tcacgcaccc gctcacgcac cctcggtgaa tccttggtga tgattttggc aactttggga 360
ataaatggca attcccacgg amwaaaaaaaa aaaaaaaaaa aaaag 405
```

<210> 104

<211> 2158

<212> DNA

<213> Homo sapiens

<400> 104

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gaggcctgtc ggagtcagct ccttcagac tgggtggcgc acagcccagc acaggcgtgc 60
cgctggtrac ggggtacacc acctacrac cgcaccattc agcattctcc cagatggtga 120
wcagcttcta ctatgggggc aagctggtgg gccaggccac caccacctgc cccgagggct 180
gccgcctgtc cctgagccag cctgggctgc ccggcaccac gctgtatggg cccgagggcc 240
tggagctggt gcgcttcccg ccggccgacg ccatccccag cgagcgacag aggcaggtga 300
cgcggaactg ttcgggcacc tggagcgcg ggtgctgctg cacagcagcc ggcarggcgt 360
gttcgtcaag cgctgtkcc agggcccggt gttctkcagc ggcaacggtt ggtgtgcaaa 420
ggcagggcca acaagctgga gctgatgagg tgggccaggt ctctgacacc agccagttct 480
tccgagagct gcagcagttc tataacagcc arggccggt tcctgacggc arggtggtgc 540
tgtgttttgg ggaagagttc cgatatggc cccttgcgc tccaaactca ttctcgtgca 600
gattgagcag ctgtatgtcc ggcaactggc agaagaggct rggaagagct gtggagccgg 660
ctctgtgatg caggcccccg aggagccgcc gccagaccag gtcttccgga tgtttccaga 720
tatttgtgcc tcacaccaga gatcattttt cagagaaaac caacagatca ccgtctaagt 780
gcgtcgcttg ggcgcccac ccgctctgcy tcctgcaccc atctccctgt tacagtggcc 840
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taatttaata agggcattct cggaggagta gacgtttaat acgaatgggc ggcatagccc 960
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actatcattt ccaaagactt gtcattcagt aatattagca gatagctgct tcgataaagg 1140
aatttgaggt ttaaaaatca acttgtgaaa acaaggttgt ttttgtcttt atcktttgtt 1200
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tcatatccag gcaaacgggt gtgtttttat cttcagacaa tgaaaccttc tcctctgggg 1440
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cctgtggagg ggacagtcag acccagaggt cctttacgtg tggatggagt tcacaggcga 1860
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taagaatggc agacctgttt gctgaagtgt tcataagata acaataggct tgaatctcca 1980
attcaaatga atgtcaaagc acatatcttt aatatgctga atgaatatatt atttttgtat 2040
ccattaaaac agtatattga tctcttttat tctttattaa aataaaatgc tcttttttaa 2100
aaaaaaaaa aaaaaaaaaa aaaaaaagg gcggccgctc tagaggatcc ctcgaggg 2158
```

<210> 105

<211> 867

<212> DNA

<213> Homo sapiens

<400> 105

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ggcagagctg tgctgcacag ggggaggaga gggaaaccca ggcgcgagcg ggaagagggg 60
acctgcagcc acaactctct tggctcctctg catcccttct gtccctccac ccgtccctt 120
ccccaccctc tggcccccac cttcttggag gcgacaaccc ccgggaggga ttagaaggga 180
```

```

tttttccgc agttgcgaag ggaagcaaac ttggtggcaa cttgcctccc ggtgcgggcg 240
tctctcccc accgtctcaa catgcttagg ggtccggggc ccgggctgct gctgctggcc 300
gtccwgtgcc tggggacagc ggtgccctcc acgggagcct cgaagagcaa gaggcaggct 360
cagcaaattg ttcagcccca gtccccggtg gctgtcagtc aaagcaagcc cggttgttat 420
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cgtcctaaa actccatgat ctgggactgt acctgcatyg gggctgggag agggagaata 660
agctgtacca tcgcaaaccg ctgccatgaa gggggtcagt cctacaagat tggtgacacc 720
tgaggagac cactgagac tgggtggttac atggttagag gtgtgtgtct tggtaatgga 780
aaaggagrat ggacctgcaa gcccatagyt gagaagtgtt tgatcatgct gctgggactc 840
ctatgtggtc rgagaacgtg ggagaag 867

```

<210> 106

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<400> 106

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agaagcagga actccaggat cccaaaccag agcagaccct atagtaaagt atttttacat 60
cttttccttt ccccaagaaga gatccctaac ctattgtttt attgacagcc ttgctgtag 120
aggctctttc ccagaagttg gacgaagagg ctccagcggt gctgtttctt gtcttccaag 180
tcaagtgggt actctggtaa tggattgcct ctctccgagc tttcaccctg gtgagactgt 240
ccagatctag tctgtaaacc cagcttagaa gcaactgtgt aaaaatgact gaagagccca 300
tcaaggagat cctgggagcc ccaaaggctc acatggcagc gacgatggag aagagcccca 360
agagtgaagt tgtgatcacc acagtycctc tggtcagtga gattcagttg atggctgcta 420
caggggttac cgagntctcc tg 442

```

<210> 107

<211> 1468

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (591)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (811)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1464)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1467)

<223> n equals a,t,g, or c

<400> 107

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ccaaggggac ggtatacact cacctccaaa accctccttg caccccaatc tgccctagac 120
accacctcct gatggcctca tccctgggtca agggcgggag ttgggagatg gctasatsgg 180
garcgggtatt tctgaatttc tgtttccagt gttctctgar gcttaatggg aacattttctc 240
ttaggaggat ccaaaccac tcttggggga catgaggccg cgctgcatga cttgctgaac 300
ggcacaggga cccctcgagg aacaagggtg cacaccagct ttcagccacc atgactgtgg 360
ggagtggctg gaccaarggc tgacctccc gactgcatca aagttgggga accaagtctc 420
agagtgggc gggggccttt cggatatcac atgggacaga ggaagagccc ggctggaatc 480
tgacttacct ggaccgctgt ccttgtgagg cattgaatgc ccagtgcagt atccgagaga 540
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gtctgggaga aacagagcca gacatagaca gttccagcat cacagaacca gaagaagaga 660
cctgcaactg tgagartcca gacaggaagc agagaaggcg tccttgygga aagggcattt 720
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cagagaaggt cagagctgag tgacgtttgg naatccaccc cgtttattgt agaactggg 840
gttcagaggc caggtgcctc aragttgagg ccacacagtg aggtctggtg ggtgaaagga 900
cccaggaacg aggcgttcag gaaagcaggt tgtcagagct atgtggagtc tgtgggtggc 960
aggggcagcc gctccagcct ttgaagactt tgaaagccag agattcctgg cgcaggcttg 1020
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cccaggaac ccaggttcag ggtaggacag gcaagaccag ataccatg tgcaaagtga 1140
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cctggggaca gaggtcagcc taaggtgaca cacggggact actgtgcttc cggaggctcc 1260
ctgtgtcctg gaggagaaaa gcattagagg gggcagctgg acaagctccc aactgcagag 1320
tcccagccct ggctggggca gggccccggc ctgggactca gcatttctga tatgccttaa 1380
gaattcatc tgttttgtac aattattttt taaaagtaaa cgtgtggaga aagaaaaaaa 1440
aaaaaaaaa aaaaaaaggg gggncnc 1468

```

<210> 108

<211> 2488

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1134)

<223> n equals a,t,g, or c

<400> 108

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cgcgtcctgc ctgcagagag ccaggccgga gaagccgagc ggcgcagagg acgccagggc 60
gcgcgccgca gccaccacc ctccggaccg cggcactgct gaccgcctat cgccatggcc 120
cgcgggaaa ccaaggagga gggcagctgg aagaaattca tctggaactc agagaagaag 180
gagtttctg gcaggaccgg tggcagttgg tttaatatcc ttctattcta cgtaatat 240
tatggctgcc tggtggcat cttcatcgga accatccaag tgatgctgct caccatcagt 300
gaatttaagc ccacatatca ggaccgagtg gccccgccag gattaacaca gattcctcag 360

```



```

atccagaaga ctgaaatttc ctttcgtcct aatgatccca agagctatga ggcataatgta 420
ctgaacatag ttaggttcct ggaaaagtac aaagattcag cccagaggga tgacatgatt 480
tttgaagatt gtggcgatgt gcccagtgaa ccgaaagaac gaggagactt taatcatgaa 540
cgaggagagc gaaaggtctg cagattcaag cttgaatggc tgggaaattg ctctggatta 600
aatgatgaaa cttatggcta caaagagggc aaaccgtgca ttattataaa gctcaaccga 660
gttctaggct tcaaacctaa gcctcccaag aatgagtcct tggagactta cccagtgatg 720
aagtataacc caaatgtcct tcccgttcag tgcactggca agcgagatga agataaggat 780
aaagttggaa atgtggagta ttttgactg ggcaactccc ctggttttcc tctgcagtat 840
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tcccttgcaa atgtataatt aaggcctttc tccccacccc aagtccaaga acaaagcca 1560
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agtccagtta cggacttccc ggccgccact gggccctgcc ggtcaccagg ccactgtgca 1920
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tccagagcct gcaggcatct gtggggaatc ccagcctgca ggttcttgga gaagcaggtg 2040
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gcagcggtg agctcatgaa cttggttcgc agcctgcctt gcccttgag gccacgccag 2160
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agggatgacg tccccgctgc atatttatc aaggtgactc ttgtacttgg caaggaagt 2400
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cttaaaaaaa aaaaaaaaaa actcgagg 2488

```

<210> 109

<211> 1891

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1869)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1891)

<223> n equals a,t,g, or c

<400> 109

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cccgcgggac ttcgaggggtg tcatcgccgc ccctgttggg ggtgagcgcc gcgcggctgc 120
agcatgcctc acaggaagaa aaagcccttt atagagaaga agaaagctgt gtcttttcac 180
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gagcttattc cctcaagtac cttcagtga cacaacagga gagaggagaa agaagaaacg 420
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aagatgttgg attgttaaat aaagcagctc cagtttcagg acctcgactg gattttgata 540
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aggatgactt tattcttcag gccataaagg caacaggaga ggaagaggga atggatatac 660
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aaaaaaaaana aaaaaaaaaa aaaaaggggg n 1891

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<210> 110

<211> 1559

<212> DNA

<213> Homo sapiens

<400> 110

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tgaacaagaa gaagaaaccc ttccatagga tgcccgcgcc cctcggctac gtgccggggc 180
tgggccgggg cgccactggc ttcaccacgc ggtcagacat tgggcccgcc cgtgatgcaa 240
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cagatgctat ctatgcagcc ctggataaaa ggatggatga aagaagaaaa gaaagacggg 480
agcaaaagga gaaagaagaa atagagaaat atcgtatgga acgccccaaa atccaacagc 540
agttctcaga cctcaagagg aagttggcag aagtcacaga agaagagtgg ctgagcatcc 600

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ccgagggttg cgatgccaga aataaacgtc agcggaaacc acgctatgag aagctgaccc 660
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ctacagaccg acatatctgg rtcacggytg ttaaagttgg gaggaggccc aatggggaa 1559

```

<210> 111

<211> 585

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<400> 111

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gtgctccctg catttcaaat tccattgtag aaagtctctg ataattctac ttatactatg 180
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aaataatgct cataaatagc ttgggttctg tcataatatt cgtatttata aacatttt 360
gtcaattctc ttcttttgtt ttcatctcag aaatatccat gtcctgaata aaagttgt 420
cttgattagt ttattatgta acaatttagt gtgtttgaca tttctaactt ttatttct 480
catttgcttt attatagaac aataaacatg cagtgatgat ttcttacwca gggagagtga 540
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<210> 112

<211> 2388

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2296)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2387)

<223> n equals a,t,g, or c

<400> 112

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gtttttcttg ggtgtttgtc aaacttttat tccctgtctg tgtgcagagg ggattcaact 300
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cgattcccac cataaggctg aaaaatcatc agtactaaag tcaaaagagg aaagccatga 600
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tcacctgaa ggagtnnggg ccawgyttkg gaattaaaga agaggacata gatgaaaatc 2340
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<210> 113

<211> 2303

<212> DNA

<213> Homo sapiens

<400> 113

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atztatacag agatgttctt aactgtttgc tacaaaaaca tgaagatcaa aaactttctt 180
gaagyttacg ctttaacttat ttggggaaac aaaactocag cccttcttgt gtatgttctg 240
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tttctttata tctctctctt gtgattgtat accgtttttt caacttaaag caacttcagc 360
tggaatatag tagaggttg ccaaggtgaa ctaaaatagtc tgtaacattg attagatata 420
aagcaacgtg agcatggtag caaaagcact aactgaagcc agtgatttaa tttttaattc 480
tgattctgat aattgatgat atagctcctc gaactttgtt ttttgttaaa acttggaaaa 540
tatatttgta ttattttgga caaattattt gaactctctg gaccttgatt caatttatat 600
ataaggtaaa ggcattatac tggattatcc tgcaatttct ttgagttgtt agaataataat 660
gtagcttatt aatagcaata ttagcagtgt agtagattct gactgcaaaa cctagccttt 720
tctattgatt cattagtggg agtaaaggta ttatctgatt tatccttttt aataggcagt 780
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<210> 114

<211> 751

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
 <222> (667)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (733)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (748)
 <223> n equals a,t,g, or c

<400> 114
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 aaaagcatct tttttcagaa gggaaactga aagaaaagagg ggaagagtat taaagaccat 180
 ttctggcttg gcagggcact ctcagcagct caactgcccc gcgtgaccag tggccacctc 240
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 gaaatgcgtc aaaggatgaa attgattctg cagtaaagat gttggtgtca ttaaaaatga 480
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 cagtacagac aagcagtgca aaaggcatag actacgataa gctcattgtt cggtttgga 660
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<210> 115
 <211> 3103
 <212> DNA
 <213> Homo sapiens

<400> 115
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<210> 116

<211> 888

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (841)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (883)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (885)
<223> n equals a,t,g, or c

<400> 116
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naaaaaaaaa aagaraaaaa aaaayycggg gggggccggt acncnatt 888

<210> 117
<211> 446
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<400> 117

```
ggccttaagc ttgggcctca naagccctgg aacantgggg taanttccca actcctcttt 60
gtcctgtaag tttcctgaaa tttccttaac aaagaaacat gtaataaaga aaatatgaac 120
aaaaagttat ttttataaaa taaagggaca cttcccaggc aatttcagtc ttttaagaaaa 180
gctaaggctt gtttggtttt ttgtttatTT ttaggttttt ggtgtcctca tgacctaac 240
tcatccagcT gagtagagac tgggagggga gagcagcagc tggagggcag gctgggagcg 300
cttgtgaggg agaggagcta tggacgtctg cttctctgcc aaggagagaga gtgaggtagg 360
cctggggcccT ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatTTT 420
ttatttactg ngaatggnag ctttgt                                     446
```

<210> 118

<211> 264

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<400> 118

```
ggcagcagca aacttcacat agccaaacag ttgaagagac ctcatacata atagactatc 60
ctatatcaca gctaacgaga ataaaaaagg aatgtggcat gaaagcataa aaataaaaaac 120
atctcagata ataatataga gaaaaccaa atacatgggc tagaattcca cccaggggac 180
tgtatcctca aagacacagg tttttcttcc tttttctttt tttttctttt tcatgtttca 240
gtactctgag cagctacaaa anga                                     264
```

<210> 119

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (546)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<400> 119

```
tggaaccctg gccgagtccg aaaaaagcca gatctggaag gtggctgcgg aacggtttta 60
```

100

```
agcggaagat ggaggagccg gaggaaccgg cggacagtgg gcagtcgctg gtcccggttt 120
atatctatag tcccaggtat gtcagtatgt gtgactccct ggccaagatc cccaaacggg 180
ccagtatggg gcattctttg attgaagcat atgcactgca taagcagatg aggatagtta 240
agcctaaagt ggctccatg gaggagatgg ccaccttcca cactgatgct tatctgcagc 300
atctccagaa ggtcagccaa gagggcgatg atgatcatcc ggactccata gaatatgggc 360
taggttatga ctgcccagcc actgaaggga tatttgacta tgcagcagct ataggagggg 420
ctacgatcac agctgcccga tgctgattg acggaatgtg caaagtagca attaaactgg 480
ctggaagggtg gcatcatgca aagaagtaag mamatgacct tctgtttctg acyctttccc 540
ttgagnaagt ttcctngtat gtaaccctta t 571
```

<210> 120

<211> 1299

<212> DNA

<213> Homo sapiens

<400> 120

```
aagggtacgcc tgcagggtacc ggtccggaat tcccgggtcg acccacgctg ccgctctgag 60
gctctttcca acgtgtgaaa aaaggacaga ggctgttccc tatggcagaa ggcaaccaca 120
gaaaaaagcc acttaagggtg ttggaatccc tgggcaaaga tttcctcact ggtgttttgg 180
ataacttggg ggaacaaaaat gtactgaact ggaaggaaga ggaaaaaaag aaatattacg 240
atgctaaaac tgaagacaaa gttcgggtca tggcagactc tatgcaagag aagcaacgta 300
tggcaggaca aatgcttctt caaacctttt ttaacataga ccaaatatcc cccaataaaa 360
aagctcatcc gaatatggag gctggaccac ctgagtcagg agaacttaca gatgccctca 420
agctttgtcc tcattgaaga ttcttgagac tatgtaaaaga aagagctgaa gagatctatc 480
caataaagga gagaaacaac cgcacacgcc tggctctcat catatgcaat acagagtttg 540
accatctgcc tccgaggaat ggagctgact ttgacatcac agggatgaag gagctacttg 600
agggctctgga ctatagtgtg gatgtagaag agaactctgac agccagggat atggagttag 660
cgctgagggc atttgctacc agaccagagc acaagtcctc tgacagcaca ttcttggtac 720
tcatgtctca tggcatcctg gagggaatct gcggaactgt gcatgatgag aaaaaaccag 780
atgtgtgctt ttatgacacc atcttccaga tattcaacaa ccgcaactgc ctgagtctga 840
aggacaaacc caaggctatc attgtccagg cctgcagagg tgcaaaccgt ggggaactgt 900
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cacatgcttc cagaaatatt cttggtgctg ccacctagag gaagtatttc ggaaggtaga 1140
gcaatcattt gaaactccaa gggccaaagt caatgscac ctwgracgat ktcttgacag 1200
ttttttacyc tttctgggat ttaattggagc tcagcagcca cctcttataa ttttaaggag 1260
tcttgtcatt gatttaaatt tgcttcatca agggggacg 1299
```

<210> 121

<211> 1649

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1643)

<223> n equals a,t,g, or c

<400> 121

```
ccgattctac aggtcacgga aaaagcactt gatcaccacc cagacagaac acaaattgtg 60
```

```

cttggactcc tgcggttcac tggaagctga gggctttcag gtcacctacc tcccagtgca 120
gaagagtggg atcattgacc taaaggaact agaggctgct atccagccag atactagcct 180
ggtgtcagtc atgactgtga acaatgagat tggagtgaag cagcctattg cagaaatagg 240
gcggatttgc agttccagaa aggtatatatt ccatactgat gcagcccagg ctgttgghaaa 300
aatcccactt gatgtcaatg acatgaaaaa tgatctcatg agcattagtg gtcacaaaaa 360
ctacgggtccc aaaggggttg gtgccatcta catccgtcgc cggccccgtg tgcgtgtgga 420
ggccctgcag agtggagggg ggcaggagcg gggatgacg tctgggacag tgcccacacc 480
cttagtggtg gggctggggg ctgctgtgta ggtggcacag caagagatgg agtatgacca 540
caagcgaatc tcaaagttgt cagagcggct gatacagaat ataatgaaga gccttccaga 600
tgtgtgtgat aatggggacc ctaagcacca ttatcccgcc tgtatcaacc tctcctttgc 660
atatgtggaa ggggaaagtc tgctgatggc actgaaggac gttgccttat cctcagggag 720
tgccctgcacc tctgcatccc tggagccctc ttatgtgctt agagcaattg gcactgatga 780
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gaatagggcc ctgactttgt gctggtctgg cccctcctgc ctcaccaacc cgtgcacaac 1020
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cacttcaatg taatatcttc tgtagctcca aaggctatct cttcatattg actgcagaca 1440
gactgaatgg acagtttctt agagggttg tctcctttct acccttgctc tcttctctt 1500
cctttgacct aatggagcta gaaatatgtc tgtgactcca ccagttattc taataatttg 1560
ttttcttgaa aattgttaat ttcaagactg gagaaataaa ctcaccttct atttaaaaaa 1620
aaaaaaaaa aaaaaaaaaa ttntctgagg 1649

```

<210> 122

<211> 2785

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1900)

<223> n equals a,t,g, or c

<400> 122

```

gagtcaacag aatcacttac tgakgagggg acagacatga atgaaggaca actactggga 60
gactttgaga ttgagtccaa acagctggaa gcagagtcct ggagtcggat aatagacagc 120
aagtttctaa aacagcaaaa gaaagatgtg gtcaaacggc aagaagtaat atatgagttg 180
atgcagacag agtttcatca tgtccgcact ctcaagatca tgagtgggtg gtacagccag 240
gggatgatgg cggatctgct ttttgagcag cagatggtag aaaagctgtt cccctgtttg 300
gatgagctga tcagtatcca tagccaattc ttccagagga ttctggagcg gaagaaggag 360
tctctggttg ataaaagtga aaagaacttt ctcatcaaga ggatagggga tgtgcttgta 420
aatcagtttt caggtgagaa tgcagaacgt ttaaagaaga catatggcaa gttttgtggg 480
caacataacc agtctgtaaa ctacttcaaa gacctttatg ccaaggataa gcgttttcaa 540
gcctttgtaa agaagaagat gagcagttca gttgttagaa ggcttggaat tccagagtgc 600
atattgcttg taactcagcg gattaccaag taccagttt tattccaaag aatattgcag 660
tgtaccaaag acaatgaagt ggagcaggaa gatctagcac agtccttgag cctggtgaag 720

```

```

gatgtgattg gagctgtaga cagcaaagtg gcaagttatg aaaagaaagt gcgtctcaat 780
gagatttata caaagacaga tagcaagtca atcatgagga tgaagagtgg tcagatgttt 840
gccaaaggaag atttgaaacg gaagaagctt gtacgtgatg ggagtgtgtt tctgaagaat 900
gcagcaggaa gggtgaaaga gggtcaagca gttcttctca ctgacatttt agttttcctt 960
caagaaaaag accagaagta catctttgca tcattggacc agaagtcaac agtgatctct 1020
ttaaagaagc tgattgtgag agaagtggca catgaggaga aagggtttatt cctgatcagc 1080
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gcctcctgat cctggccagc ccacctctcc tgctgtcccc gcgtgcacaa gtctcttaca 2700
ctggacgccc actgctctc agcgtccagt cctcctgggc ggccccagkt cctggaacaa 2760
taagcmacar atgatattga gttgt 2785

```

<210> 123

<211> 1968

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1909)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1942)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1948)
<223> n equals a,t,g, or c

<400> 123
tcgacccacg cgtccggggc cgggcccagc ctgggcccanc gaagccatcc actgcccgcc 60
ctgctccgag gagaagctgg cgcgctgccg cccccccgtg ggctgcgagg agctggtgcg 120
agagccgggc tgcggtgtgt gcccacttg cgccttgggc ttggggatgc cctgcggggt 180
gtacaccccc cgttgccggt cgggcctgcg ctgctacccg ccccgagggg tggagaagcc 240
cctgcacaca ctgatgcacg ggcaaggcgt gtgcatggag ctggcggaga tcgaggccat 300
ccaggaaaagc ctgcagccct ctgacaagga cgagggtgac caccccaaca acagcttcag 360
cccctgtagc gcccatgacc gcagtgccct cagaagcact tcgccaaaat tcgagaccg 420
agcaccagtg ggggcaagat gaaggtcaat ggggcgcccc gggaggatgc ccggcctgtg 480
ccccagggt cctgccagag cgagctgcac cgggcgctgg agcggctggc cgyttcacag 540
agccgcaccc acgaggacct ctacatcatc cccatcccca actgcgaccg caacggcaac 600
ttccaccca agcagtggtca cccagctctg gatgggcagc gtggcaagtg ctggtgtgtg 660
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caccagctgg ctgacagctt tcgagagtga ggccctgccag caggccaggg actcagcgtc 780
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aagaatgcaa gagtggactg aatgtgccta atggagaaga cccacgtgct aggggatgag 1620
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gaacctatcc ttccagtggc tcgctcctg tagctctgcc tccctctcca tatctcttc 1740
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ggaaggagac ttaggaacct accagttggc catgatgtct tttcttcttt ttcttttttt 1860
taacaaaaca gaacaaaacc aaaaaatgtc caaaaaaana aaaaaaana aaaagggggg 1920
gccggtacca attgcctat antgatcntt tacaatcatg gccgcgtt 1968

<210> 124
<211> 1705
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (773)
<223> n equals a,t,g, or c

<400> 124

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ttttttccgg tagttaggcc agctgaggcg gtttgtaagt tttgggtcgc agtatgctag 60
aatttttgagg ctcccttctg atgaaaattg agctgtccat gcagccatgg aaccggggtt 120
acagcagtga gggggccacg gctcaagaaa cttacacatg tccaaaaatg attgagatgg 180
agcaggcgga gggccagctt gctgagttag acctgctagc cagtatgttc cctgggtgaga 240
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agacaatgga ggggcgatct tcaaaagtct actttactat caatatgaac ctggatgtat 360
ctgacgaaaa aatggcgatg ttttctctgg cctgtattct tccctttaa taccgggcag 420
ttctgcctga aattactgtc agatcagtat tattgagtag atcccagcag actcagctga 480
acacagatct gactgcattc ctgcaaaaac attgtcatgg agatgtttgt atactgaatg 540
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agctggagga gttatttgaa ccacgacgga agggccaaga gaaccacgaa gatgccagtt 1620
gccacattgt tgagctgctg acccaacacc agccattgcc tgtctctaaa catcttatga 1680
aataaaacca rttttgttta aaaaa 1705
```

<210> 125
<211> 2381
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2363)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (2370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2378)
<223> n equals a,t,g, or c

<400> 125
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taccatctat gatgaagatg aggtcctcct ggccctggca gaacagctgg gaaccttcac 300
taccctggtg ggaggcccag agtacgtgca ctgcctgctg ccaccgctgg agtcgctggc 360
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gatcaccaag acagacctgg tccctgcctt ccagaacctg atgaaagact gtgaggccga 960
ggtgagggcc gcagccctcc acaagggtcaa agagtctgt gaaaacctct cagctgactg 1020
tcggggagaat gtgatcatgt cccagatctt gccctgcac aaggagctgg tgtccgatgc 1080
caaccaacat gtcaagtctg ccctggcctc agtcatcatg ggtctctctc ccatcttggg 1140
caaagacaac accatcgagc acctcttgcc cctcttctg gctcagctga aggatgagtg 1200
ccctgaggtg cggctgaaca tcatctctaa cctggactgt gtgaacgagg tgattggcat 1260
ccggcagctg tcccagtcct tgctccctgc cattgtggag ctggctgagg acgccaagtg 1320
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gttctttgat gagaaactta actccttgct catggcctgg cttgtggatc atgtatatgc 1440
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ggcccatgcc acaatcatcc ccaaggctct ggccatgtcc ggagacccca actacctgca 1560
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cttcaatgtg gccaagtctc tgcagaagat agggcccatc ctggacaaca gcaccttgca 1740
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gcctttggct gtactccct gtgcatggtc tgaccccagg ccccttcccc cagcacgggt 1980
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<210> 126
<211> 1713
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1653)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1710)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1711)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1713)
<223> n equals a,t,g, or c

<400> 126
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gatctgagta taaagatagg tcagaagtat tttaaagggc ttaatgtgcc aaaaagaaaa 180
aaagctagag accctttttg caaacatttg gtgaccacac atttgaggga agacgtggcg 240
ttaggtgaag cagaagcaaa ccctgctctt aggggctcac ctagggtgag gcacagcctg 300
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gagtagatgc ggggagggct ggtgacctcc gtgggtttat atgtcggaaa ctcttctctc 540
caaatcccag gcctggcttc cagcaccatc cagctgtgcc caagaagcca ccctgggtctg 600
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caatgaaata ttgttatcgt tttaacatag ctcatattat tagaatgaat tctgggtggtt 1140
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ttaagcaatt ttaaaaaggc aggatgttat tgacattata cactgaagtc ttaacatttt 1440
aacatttata gtgcttattt gcaaaattgt ataattagga attatttcag agacaatggt 1500


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ttctttttca ggtgagtagt tgccgcgtaa tatcattgga gtacattctt tatactgttt 1560
gtgaaattaa tactagcata ttaagtgtac aaatagattt agaaaacaat aaaaaattgc 1620
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ataaaagtag ttgtgtgtta aaaaaaaaa nan 1713
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<210> 127

<211> 1514

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<400> 127

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accttttaga ggtctagtct attattgaaa actcaatttt ttcacttata tggctttaa 420
atggagctat tttgctacaa tataatgtat tgtttatttt ttaagttat ttaatgttaa 480
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taattttgtg gaaatgatat aacagctatt aataactacta taacataggc ataaatattt 660
tcgtgtttat atgcatatac aagttaaaat aattagaaac tatgactgcg cctagttaaag 720
tcatctaggt ttatagttca gtagcttagg caaggcacac actgctcacc tccgcttttt 780
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ctttcctccc tctaaaatca aagagctgaa ttatgtgatc cttgaggctc cttccactta 1380
taataccaac tgtcttgcga gactggcaaa ttatatgggc ctctccttat gtggtggttt 1440
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taaaaaaaaa aaag 1514
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<210> 128

<211> 2049

<212> DNA

<213> Homo sapiens

<400> 128

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attaggccaa agtctgggag taaggagagg attagggtact taggagcaaa gaaagaagta 180
gcttggaact tttgagatga tccctaacat actgtactac ttgcttttac aatgtgttag 240
cagaaaccag tgggttataa tgtagaatga tgtgctttct gcccaagtgg taattcatct 300
tggtttgcta tgtaaaaact gtaaatacaa cagaacatta ataaatatct cttgtgtagc 360
accttttact ggtagattag tgccttaatt tcttggcctg ccattttggt tgattgcyaa 420
ggcaattttt tctaacyta gggaaatcatt cagtagatgc gattaataaaa ctaatgttgg 480
gtcaattttt ttcttcattt tcagcacaag aagtcctctt atatcctact aaatacattc 540
ctaaaaatgt atttgaacat tggttctgta aaagataatg gactaaaaaa gtagagagga 600
gttgtagaga tcttaaatac ttctggaatt cctaattatg cttcaatttt tagacataat 660
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atgcaccaac tggtttgagt cctgtgagca ttcagtcagt tgaaattaaa gattcctcat 780
ttctcctgat ttctattctt gtctcaatct taaatttaga gaccagttgt ttttatgata 840
tcagccattt gatttttttc attttctatt taagaaatat gaagaaaaaa tacaccaaga 900
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gaagtgggca ccataatatca tctagagtcc ttactggtat tcaggatgaa aatgttcacg 1680
ctgcattaat tgcatttttt ctctcccatg ttctttctca ctttgatagc ttaatactga 1740
taatggataa agagtgaagt tttataataa atggttttgg aaaggatttc ataggaaccg 1800
cggttattta ctttaagggtta tggagtaaac tagcttggaac cttgggctgc aggacgacta 1860
ggattcacc ataacgacac agtgccttat gtttcttaac ttcttggtgc catttgaaac 1920
tctgtactct tatgtttaaa gggttctgta tagccatttt ttttttcaga aagttacatt 1980
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cggcacgag 2049
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<210> 129

<211> 1266

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (120)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1222)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1235)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1243)

<223> n equals a,t,g, or c

<400> 129

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aatctgacca gtycccactt cttccctgcc acgcgtgtgt gtgcgtgtgc cacgtgagtc 180
caaagtcccc tgccccccaa gccagccaga cccagacatt agaagatggc tagaaggaca 240
tttaggagac atctgcctct ctggccctct gagatatccc gatgggcaca aatggaaggt 300
gcgcacttgc ccctactatt gcccttttaa ggccaaagct tgacccatt gccattgcc 360
tggctaataa gaacccctgg ttctcagaat tttaaccaa aggagttggc tccaaccaat 420
gggagccttc ccctcacttc ttagaatcct cctgcaagag ggcaactcca gccagtgttc 480
agcgactgaa cagccaatag gagcccttgg ttccagaat ttctagagtg ggtgggcatg 540
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gagcactgcc cccctttcct gccccctcct catctttaat aaagacctgg cttctcatct 1080
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tccctcgagg gggcccaagc ttacgcgtg gcatggcgaa cgttcataag ctctcttccc 1200
tatagtggag tcgtatttta tnaagctaag ggcangggcc gtncgttttt taaaacgttc 1260
gttgaa 1266
```

<210> 130

<211> 1095

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1068)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1081)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1095)

<223> n equals a,t,g, or c

<400> 130

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tcccgctcca cctcgcttct tctctcccgg ccgaggcccg ggggaccaga gcgagaagcg 120
gggaccatgt tccgacgcaa gttgacggct ctcgactacc acaaccccgc cggcttcaac 180
tgcaaagatg aaacagaatt tagaaacttc atcgtttggc ttgaagacca gaaaatcagg 240
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ccattgatca atttggatgt aaataatcct gattttaagg ctggtgtgat ggctttggct 540
aacctgcttc agattcagcg tcatgatgat tacctggtaa tgcttaaggc aattcggatt 600
ttggttcagg agcgctgac acaggatgca gttgctaagg caaatcaaac aaaagagggc 660
ttacctgttg ctttagacaa acatattctt ggttttgaca caggagatgc agttcttaat 720
gaagctgctc aaattctgcg attgctgcac atagaggagc tcagagagct acagacaaaa 780
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nggcctttgg ggggn                                     1095

```

<210> 131

<211> 2890

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2886)

<223> n equals a,t,g, or c

<400> 131

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aagaatataa aagataaaca ggaagtctaa tgtgaacaat atagatgytt yattctgata 180
tattcagttt cccacttttag gcaaaagtag attaatagaa tgacgaattc aaagtagatg 240
aggaaaatca ggcacagaga agtaaaggta gggatagacc caaatTTTaca caacaagata 300
atgacatctc cagcttttta gttgatcatc aaaggctggg ctggatttgt cttgctgtat 360
gtgtcaggaa atttatacct attacatttt ccattttctc aaaattttaag tcacatgact 420
aatatttagc tgcaactttc ctcataacaa atagtgtcat gaagaatgtt gtagtgtaa 480
gtttgtacat ttcagggtca gatatacaat atgaactctt aatctacagg aatgagaatg 540
gaggatcatt gaaggccatg atataaaca atttgcatgt tgaagcctgt ataaaacatg 600
gtacagttag tgaatatacc cccatcccca agaacacttt atacatatta aatggatata 660
tgattactgt gcaaaaattc attctggaaa tgaacatata tttgagcact aatatgtaat 720
gtacacctgc cctaaggaga aaataaatta taaaactttt tacattcaaa attacttttc 780

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111

```

caagcatgtc ttagaataat ctatgtgttg atgcatgtaa attgtacttt aggtaggcaa 840
agaaatctgg ttatttatgt aaaaactagt ctaataaagt tagttagtgg ctttatcact 900
ttaaatcttt agtgtccaaa agtgggtgtt aaagtaatag cacatcagaa aaccttgtct 960
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aaaaanaaaa 2890

```

<210> 132

<211> 567

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (567)

<223> n equals a,t,g, or c

<400> 132

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gaggccagtt ctaccagca ggagaccata gacagactga cctcacagct ggaggctttc 120
caggccaaaa tgaagagggt ggaggagtcc attctgagcc gaaactataa gaaacatatc 180

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```

caggattatg ggagccccag ccagttcttg gagcaggagc tggagagctt acactttgtc 240
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gacctccatg tccgaagccg caaccagggtg gtcctgtcaa ggcagctgtc agaagacctg 420
cttctcacgc gtgaggccct ggagaaggag gtgcagctgc gsgacagct tcagcaggag 480
aaggaggagc tgttttaccg ggtccttggg gccaatgcct cgcctgcctt ccctctggcc 540
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<210> 133

<211> 786

<212> DNA

<213> Homo sapiens

<400> 133

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agctgcgggt gcgcctcgcc tcccacctgc gcaactgcgt aacggctcct ccgcgatgcc 120
gatgacctgc agaagcgccg ggcagtgtag caggccgggg cccgcgaggg cgcgagcgcc 180
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caggccgagg ccttcaggcc ccgcctcaag agctggttcg agcccctggg ggaagacatg 480
cagcgccagt gggccgggct ggtggagaag gtgcaggctg ccgtggggac cagcgccgcc 540
cctgtgcca gcgacaatca ctgaacgcg aagcctgcag ccatgcgacc ccacgccacc 600
ccgtgcctcc tgcctccgcg cagcctgcag cgggagaccc tgtcccgcc ccagccgtcc 660
tcctgggggt gacctagtt taataaagat tcaccaagtt tcacgcaaaa aaaaaaaaaa 720
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggc ggccgctcgc gatctagaac 780
tagtcc

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<210> 134

<211> 1221

<212> DNA

<213> Homo sapiens

<400> 134

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aattcggcac gaggccagct actcgagagg ccaaggcacg agaatcactt gaaccagga 60
ggtggagggt gcagtgaaat gagatcacgc cattgcactc cagcctagct aaaaaattgc 120
caaagaatga accacaaaat ccaggagcaa attctgccag aggaagagga gtagacctta 180
ccgaaccac acaaccaacc aggaatcagt gttgtagtaa ctaaaccctt agtttgaaat 240
agctggaata gtcttctgct tcctaaatgt taataacaat ggaattggag catttaacca 300
gccagtatg acttccaaaa gaagagactt atgatagagt caagtttcta atacagaatt 360
attttaagtg ttttgaactt aatttttaat aacatgcag ggtccctctc actaatgttt 420
caacaatagg gaaaaatgag aactatgttg acacttgttt cattggaagg ttagggggaa 480
taatttctca ttagtaggaa tatagacaaa tgactgtctg ggccacaca gttaccagc 540
ccatttctcc aactgggtac agtagtcacc tgtgaaaaaa aaaattggaa cttactaatt 600
tggtgttttc aaaaacattc tttgtttaga aggagattct aaagttattt atgatgctta 660
gccatagtat tcaggcaaat gttcatttct cctgttacct gtatttaaaa tgtacattcc 720
acattttaat aaattaacca caagaaaata atcccacata tacaagggtc ggggtgggga 780
agagtattaa tggatcttta attataacca gtctggtttt ttttttttaa atggggtaaa 840
aatcaaatgc aaccccatct tgttttagga attttgagaa ctaataaatg caccttaatt 900
gtcagtggtc ctttcaaaaa tgtgagttct ttaacaaaaa tgaaataaac caggtgtctg 960

```

```

tgatttctaa ttaatcacccg ctggccatta cacaggtttt gttgtttggg gtggggaggg 1020
ggcttttggt cccttttgac ataatatagt caatgcacta acaattatgt atattcaaac 1080
ttgattatgt taaattcgat cttcagctgt actgtaaata gggtagtgca ttgtagtctc 1140
catactctgta ttacttttct gtaatatatta agagttgcta aaagcataca aaatgtactg 1200
ttactaaaac agctaattat t                                     1221

```

<210> 135

<211> 1921

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (107)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1880)

<223> n equals a,t,g, or c

<400> 135

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aattgtggtt aatgttacct ttatcttggt gaggaccacn acatttagca cggtagccttg 60
tgccagaata gatactcaat atgtgaatat gtgtctacta gtagttnaat tggataaaact 120
ggcagcatcc ctggcctggt gtcattgcagt tcaattcctg ttaattctgg gagacaatga 180
tttcacaact agaggggaagc agtcctaaaa gttaaatac cgataaggaa tatctggggac 240
agggtttaga tcatgactct acacagatac catgatgaga gtatattaaa gaaatttagg 300
aaagcacctg gttcctttct ccccatgcct gccttctgct ccctccccag ctggtttggg 360
ctcaaatgtt ccctggagac tagggtttat gttagggtat tgatagatta gagcagggtg 420
ttgaagagat cttctctggt cagacttgga agaatttcca aaactgaagt tagccccaag 480
acttccctag ggttgatgta ctttatgac cagatgctaa acttcttaga atgaaaatat 540
gcttcaacac ttaagtagca tacactgccc tacaacctc agagagcact tttccccaag 600
ttcttggttt tatttttgaa agtactcaca cagcacttac tatgctcaa acactcctct 660
aagcacttta cacatattag ctcatcagc cccagacag acgggatgaa gtaggtattg 720
ttactgttcc cattttacag gtgagagatt tgaagcctgg ggaggctagt aactcacccc 780
aaggtcacac ggctcataca tgggtgggact gagactcaga tgcaggcagt ctggcacctc 840
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aaacctagag tagtgcttat gctgaaatga tacttttcat tttttggttg atthtttttg 1440

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114

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cttcccttca attttaaaact gaagcatttt aatrtgggta gaaactctac accaaatata 1500
ctaaacattt tgggtgcttag tggatttctt tttaggtaac tgggtacttac ttccaaagac 1560
tgaatataag ccacactcca tcatatccct taaacttcat gaaaaacat tcaagatccc 1620
cttgcctgcaa cactgttctc ttcttctcta ctaaattcta ttccaaaat tggtaataga 1680
gccagaagga tccccagtag ccagccctct gcctggcaca aastggtagg cacaattaaa 1740
ttcagtatgg ggtgggagca tgggtacagt cttgggtgcc atagggaagg agtaggttgs 1800
cataggtcac acattcattt gataagttgg gatgttcctt tacatagggg gaacacaaat 1860
ttccgggggt tttggggggn ggggttaggt agtgactaag gccgccagat ttgaggtggc 1920
c 1921
```

<210> 136

<211> 1003

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1001)

<223> n equals a,t,g, or c

<400> 136

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aaactcgact cactataggg aaagctggta cgctgcagg taccggtcog gaattccggg 60
tcgaccacag mgtccggggg tgagtggtag ccaacgggcc ggggcgcgcg gtccgcagaa 120
gaggcgcggg gtgcaggctt gtaaacatat aacataaaaa tggcttccaa aagagctctg 180
gtcatcctgg cttaaaggagc agaggaaatg gagacgggtca tccctgtaga tgtcatgagg 240
cgagctggga ttaagggtcac cgttgcaggc ctggctggaa aagacccagt acagtgtagc 300
cgtgatgtgg tcatttgtcc tgatgccagc cttgaagatg caaaaaaga gggaccatat 360
gatgtgggtg ttctaccagg aggtaatctg ggcgcacaga atttatctga gtctgtgct 420
gtgaaggaga tactgaagga gcaggaaaac cggaagggcc tgatagccgc catctgtgca 480
ggcctactg ctctgttggc tcatgaaata ggttttggaa gtaaagttag aacacaccct 540
cttgctaaag acaaaatgat gaatggaggc cattacacct actctgagaa tcgtgtggaa 600
aaagacggcc tgattcttac aagccggggg cctgggacca gcttcgagtt tgcgcttgca 660
attgttgaag ccctgaatgg caaggagggt gcggctcaag tgaaggctcc acttgttctt 720
aaagactaga gcagcgaact gcgacgatca cttagagaaa caggccgtta ggaatccatt 780
ctcactgtgt tcgctctaaa caaaacagtg tagagttaat gtgttcagaa gtcgctgtcc 840
ttactacttt tgcggaagta tggaagtcac aactacacag agatttctca gcctacaaat 900
tgtgtctata catttctaag ccttgtttgc agaataaaca gggcatttag caaactaaaa 960
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggggggggg ncc 1003
```

<210> 137

<211> 878

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (840)

<223> n equals a,t,g, or c

<400> 137

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tcgacccaag acgtccgccc acgcgtccgt ggggactccc tcgggcacn gcgactgccc 60
ggaccgagg gaggtccctg aatatcccc ttactaccag gaggaggccg gctactgagg 120
ctccagcac gctctctccc cacatcgtct ccccatctgg gtttttgggt ttttctgtgt 180
tttcatcttt tttttttttc ttaaccggtt cagtgtgcc agtcaaccaa gggctctgtga 240
gtgtcagcgt gggatcaggc agcagagctt ttttccctt tgccttgatc cttcgcaagg 300
ctgagccact gggctgtggg ggaaggggtc aaggccatat cccaatacgt gtagggcgag 360
ggtccctgct ggcacattca ggctgtgctg ggaagaagag acctgggctt ggaaggaacc 420
ggtcccgac ggtttctggt tgcctcgctt cttccccctt ttgtcagctg agcagtttgt 480
ggtttctatg cccgcaagt tccaggaagta ttcacaaaag aaaaatacat tttttcccc 540
aggggtggg caaggacagt ggagagagt ctaggaaatg agtcccctgg gaaaggggac 600
cgggccgtga tgtaaatat ctccggctcc caagtgactg gatttgccca ggaccttcag 660
atcaacagac ttcagaccct cagacctgcc ccggggccag gtggagaaag tgagggccgt 720
acaaggaagt gaaattctga gttgtgggg ctaagcctga cccctctcc atgctcccc 780
cccaactca ctctggcctc agtagatttt ttttccagt gtggtgtgtg ccagggcttn 840
gagtgcagt gcgccatctt ggcttcactg gcaacttt 878
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<210> 138

<211> 2505

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1907)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2151)

<223> n equals a,t,g, or c

<400> 138

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ccccaaatgg acatttgaat ggactaacia aaacaactgg aaagactgaa tttccgacac 120
aaaggaatga tgggatcaaa aagaaagcag tgaggagttc ttgagtcttg tagtacctat 180
tcttatttta acttgcttca tccttgatct acctgagaca ctaagaagga aattagtttt 240
ccaagagctc tttgaacctg tctaggactg tagttaaacc tatttgccct atggggggttc 300
ttcacactcg aaaaactatt tccttatcac caacgaccca cccagaaagg ccaatgaggc 360
caaatgtaac aatttttaac atttaaatat aactattaaa attgcattaa ttgtgaacag 420
tgaattaaag ggttgtcttc tccaggagac agtatgtggc acttttcgta aatttcattt 480
aatatataaa aatttaaatc actcactgca acatgcattt aaaatcttcc aagaaggtag 540
aggtatcatt ttctgttttg ctttgtttta aaacagttgc ctcaagcttc tgtcttaaga 600
gtagtgactt agaatccaga tatcttttgt tttagaaaaa caagcaaaac tatgttgcaa 660
gactgacagt tgtaatgttt atttgccaca gatcaaagg tcaaaaagta tatcaaattt 720
acatctactt ggggtacctt gatagattat tattgttttt cttttatctt tcccttcagg 780
aatttgaaa ctcgttgtca ctttttytaa ttttaaaaat actaaattgt aatagttttc 840
ttttgccaaa tgtgtgcgta catattcaaa gcaatgaaac tatttcaagc catacaacca 900
```

```

caggggtggg aaccttttca caaattttaa tgtgtttgta tgtaaataga tgtttgtatg 960
aaatatattc atgatagaat gaatatattt aaatgaagt gaattattcc agtgctactt 1020
aaacacatta caaaaatttt ggtgagaatt atctgagctc attgagatgt aatgcagatc 1080
aatttttgatt tttaaaaatc aaaagcctac aataactctg actctcagca acttcctcgg 1140
cgttggtgca cctgacgtgg agagagctcg taggcttccc cagtgcctca gccgcttcct 1200
ggtggaagt aggtgctaag ggaggtgtgt tcacctttta gtgatatcac tgcaggcctt 1260
tgaggggcct gagagtgaat cagaggcatt agagacaccg gtgcagttat ctggagcaca 1320
atctctttgc agggcagcag aatcagaagc cagacttggc catgtgaacc tcgaaactcg 1380
gtttcccggc cgccatcaac cgccaccctt actgcctagt cacacacgtc agggaggctg 1440
ccctcagtg agttgggggt gagacccag ggtgggactt cacagttttg ccagcaatct 1500
ctaccttctg acttctgcct cgagagagg aaggagagg gagcatctgg caaggggcc 1560
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aatcacattt ttaggttgtg aggtatgttg aagaagtaga agccaggggg natgctttca 2160
gcatttattg caaccaaaag ttaaccccat cacggttaac gagcatcttt ggtctcttgt 2220
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tgagttttt gtagtgtgtc tgggtgcatg atgcaagaga gtaggaaaaa tgtttctgaa 2400
acaaaacttg acaaatattt gtaatgaaag taaattttaa gattgctata attgcgctat 2460
agaaacaatg caagtattaa acaaatata caatcaaaaa aaaaa 2505

```

<210> 139

<211> 272

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (126)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (189)

<223> n equals a,t,g, or c

<400> 139

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gtagagggcg cccctgccc caccagtcct gtagtgcccc gccttcaccc cgtagctggg 60
catgggcctg gccctcgct catttgccct tttctcgct acagctgtgg acgttgccct 120
cggggnaggt cgaatgttac cccattcccc ctgccctgcc cgccccagc ctccccacc 180
aggccggcna cctggccatc cccattccgt tcttcttcat gtaataaatg ttttaatttc 240
tgaaaaaaaa aaaaaaaaaa accggggggg gg 272

```

<210> 140

<211> 1592
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1568)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1578)
<223> n equals a,t,g, or c

<400> 140
ggcagagcta ccagggggtc aggatgcggg cgggtggagcc ctctggcctt tgtgtggtag 60
ccgaggactc tgtgtcagcg accgttttcc gggaaacttc cgggcgagac tcacatcttg 120
gaaattcaaa tactcaatag ctctcgtaat tctagggaat cttgagaaga ggcctggatt 180
aaggattcaa acgtggggcc tcagatggcc ccgcacctgc cgcttgacc tgcagccccg 240
cgctctaccc ggttcaagca tggctgacca ggccgacctc gacacggacg tcaacaccct 300
gacccgcctt gtcatggagg agggcaggaa ggcccgcgcc acgggcgagt tgacccagct 360
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cgcgccctc tatggcattg ctggttctac caacgtgaca ggtgatcaag ttaagaagct 480
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tctcgtgtca gaagaagata aacacgccat catagtggaa ccggagaaaa ggggtaaata 600
tgtgtgtctgt ttgatcccc ttgatggatc ttccaacatc gattgccttg tgtccgttg 660
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ggtccttgcc atggactgtg ggggtcaactg cttcatgctg gacccggcca tcggggagtt 840
cattttgggtg gacaaggatg tgaagataaa aaagaaagg aaatctaca gccttaacga 900
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aatggccacc actgggaagg aggccgtgtt agacgtcatt cccacagaca ttcaccagag 1200
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aatgctgtct ccataatgcc actggtgtta agatatattt tgagtggatg gaggagaaat 1500
aaacttatc ctccttaaaa aaaaaaaaaa aaaaggggat tccgatatca agctgtggga 1560
aaaccgtngg acctcgangg ggggggcccc gt 1592

<210> 141
<211> 842
<212> DNA
<213> Homo sapiens

<400> 141
cgggcgcgag gcggccaccg tggagagcag agcgcggcgg ctggaagctg ctaagtcaga 60
gccgcgatgt tccgattga gggcctcgcg ccgaagctgg acccgagga gatgaaacg 120

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aagatgcgcg aggatgtgat ctccctccata cggaaactttc tcatctacgt ggccctcctg 180
cgagtcactc catttatctt aaagaaattg gacagcatat gaagacagga catcacatat 240
gaatgcacga tatgaagagc ctgggttacag ttctgactcc tctctgcaag tgaataggcc 300
cagaaaagtg taagagactc ttggaatgga cataaaattc tgcttgtaa gaacaagttt 360
ggctctggta actgaccttc aaagctaaaa tataaaacta ttggggaagt atgaaacgat 420
gtctcgtgat ctgggtgacc cttatccctg tgacgtttgg cctctgacaa tactgggata 480
attgtaaata atgtcaaact ccgttttcta gcaagtatta agggagctgt gtctgaaatg 540
gcactgtctt gtcagtcatt tctgtttacc tttttcttct gccagagtg tatttgtgaa 600
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ggatcattat tagtctatgt ttttaataaa catatcaatt aagaaaagtt gggtttctat 720
ttttcttacc ctactttttg ctgcaaacca acaatcacta gtgagacttg tattatattg 780
agattattgc aagcttcagt aagttcatct tgttttgac tagagaattt gccaatcctg 840
aa

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<210> 142

<211> 3203

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (910)

<223> n equals a,t,g, or c

<400> 142

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tttgcccggg gcgcttccg attgggaggg ctccctccat ggaacgcgag cctcgagacg 180
tctgacgtta ggcaccgttc gcagcgctc gggctcgac ggcaggatcg aaagcgtgat 240
tggtgtggcg cgtctgtggt ctgggcaccg cccagtccgg gacgctgcct ctgcggaact 300
gggggtgggg cgtgttgacc ccctaaaagg cgccagagcc cgcggtcacg gctcargttc 360
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ttggcgagat tgtgtcgtca agcgcgtacg ggcgccaatt ggccgggcga tgtggcgtgg 480
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gccgcagact gtgtcaaag cgggcgccat ccgggaccgc ggttgtctgt ggccggaggt 600
gatcagtgtt ctagaacaga tcagacattt tgtaatgatg cctgaaataa aactaacca 660
cctcgacaag caacaggttc aactcctggc agagatgtgt atccttattg atgaaaatga 720
caataaaatt ggagctgaga ccaagaagaa ttgtcacctg aacgagaaca ttgagaaagg 780
tgctgctttg aaacagtctt tcttgtaaag cgatttgtgt aggcatttcc gatttgctga 840
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ctacagcaaa gatcagatgc taagattacc ttccaggtt gttttacgaa tacgtgttgt 1500
agtcatccat taagcaatcc agccgagctt gaggaaagt acgcccttg agtgaggcga 1560

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gcagcacaga gacggctgaa agctgagcta ggaattccct tggaagaggt tcctccagaa 1620
gaaattaatt atttaacacg aattcactac aaagctcagt ctgatggat ctggggtgaa 1680
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ctttttcctt ttaaatttag ttctatcatt aatttatcat taaatttagt tctatcattt 2040
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<210> 143

<211> 3474

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<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>

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<222> (1929)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2862)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3399)

<223> n equals a,t,g, or c

<400> 143

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<211> 3283

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1884)

<223> n equals a,t,g, or c

<400> 144

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<210> 145

<211> 1818

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1267)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1798)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1812)

<223> n equals a,t,g, or c

<400> 145

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<210> 146

<211> 514

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (500)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (514)

<223> n equals a,t,g, or c

<400> 146

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<211> 2535

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2531)

<223> n equals a,t,g, or c

<400> 147

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<210> 148

<211> 2315

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2279)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2297)

<223> n equals a,t,g, or c

<400> 148

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agtgtgggtg caggctgttt tgtagccagt attcttctcc ttgctgttgc ttcaaaagca 120
gtggnactgt cttttggatt caaagtgggc aaaggccaag aaaggagagg aagctttatt 180
tacaaccagg gagtctgtgg ttgactactg caacaggctt ttaaagaagc agttttttca 240
ccgagcccta aaagtaatga aaatgaaata tgataaagac ataaagaaag aaaaagataa 300
aggaaaagct gaaagtggaa aagaagaaga taaaagagc aagaagaaa atataaagga 360
tgagaagaca aaaaagaaa aagagaaaaa aaaagatggt gaaaaggaag aatccaaaaa 420
ggaggaaact ccaggaaact ctaaaaagaa ggaaactaag aaaaaattca aacttgagcc 480
acatgatgat caggtttttc tggatggaaa tgaggtgtat gtatggatct atgaccaggt 540
tcactttaaa acattttgtca tgggattaat tcttgtgatt gcagtaatag cggccacctt 600
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ctgttttgta gccagtatcc ttctccttgc tgttgctcga tgcatcttat ttctcatcat 720
ttggctcata actggaggaa ggcaccactt ttggttcttg ccaaatctga ctgctgatgt 780
gggcttcatt gactccttca ggcctctgta cacacatgaa tacaaggagc caaaagcaga 840
cttaaagaaa gatgagaagt ctgaaaccaa aaagcaacag aagtcggaca gtgaggaaaa 900
gtcagacagt gagaaaaagg aagatgagga ggggaaagta ggaccaggaa atcatggaac 960
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```

agaaggctcg ggggggagaac ggcatcaga cacggacagt gacaggaggg aagatgatcg 1020
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acagcaaaca gatggggatt gtgaagagga tgaggaagag gaaaatgatg gagaaacacc 1140
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catgtaaggg tatgttttta gagaaatgga agtttgagta acccacagaa catctgtgat 2040
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ctgatcttaa gagcagactt aaagtagctt tgtacgcctt aatgttcatt ttgatttatt 2160
ttaaatcttt acattcagaa atgagatact gtattatcag accaggaggg attgctgtga 2220
aagataattt cctattctaa aatatcaaat taaaataaaa gataatgaaa gaaaacagna 2280
aaaaaaaaa aagggngngc cgccctaggg ggccc 2315

```

<210> 149

<211> 2604

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2566)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2604)

<223> n equals a,t,g, or c

<400> 149

```

tgtgttatgc caaaattgcc aaagtgttgt agagtacagt aaaaataata agggatgtga 60
gcaatcaagg atggtatttn ctctgtacag ccgagattcg ggccctccac cctctacagt 120
gagtgaagcc gaatttgaag atatcatgaa gcgaaacaga gcaatttcca gcagtcccat 180
ttccaaagca gtatctggag ccagtgcagg ggattacagt gacgcaattg agacgtgct 240
cacagccatt gcggttatca aacagtcccg gggtgccaat gatgarcgtt gccgtgtcct 300
catctcctct cttaaggact gtcttcatgg gcattgaagc caagtcctac agtgtgggtg 360

```

```

ccagtgggag ctcttcccgg raaagacatc gytcccggga aaggtcacct agccgggtccc 420
gggagagcag caggaggcac cgggatctgc ttcataatga agatcggcac gatgattatt 480
tccaagaaag gaaccgggag catgagagac accgggatat agaaccggac cggcaccact 540
gagaaaaggag tctggttgga agcaaatgtt tttttaatgg acttgcatct cctcaccttg 600
atcaggacta aaggacggag gccgcccac ccccttccct ttcctccaaa cccctaactc 660
cctccagaca ccagggaat accctctgcc ccacaggatt gaagactgct tggcagtcct 720
cccaatccca cacctcctgt ttgccagggg aaagaacctc aagacttcgt gtgattggga 780
ggggtggcag acaggaagaa aacatgtcca ggcccctggt ctccatagag aatggtgctt 840
tgtccaagaa aacgtatgag tttctgattc tccgggagcc gttcaatggt gaggttgatg 900
ggaagacttc cttcccaaag aaaatagatc ctccatgcag gatctaggag agtgactggg 960
tgtgccaaaa tatgccagg gtcctgccct cagcactaga tttaatgggg ccaagagggt 1020
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cgctgccag cttctcagt ggacttgccc ctccaaagca gagaaggcct atgaggttgc 1260
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ggagcccttc ccccgaaagg ctacttcctt gtttttagagg aaggtagtgc ccattgggag 1440
atggggacat tgggacctca gcaatgaaga acccttgtga agtaaccagg aggaatgggg 1500
aaagaagcaa gtgggcagg atatggccta ctccatagag cttttctttt ttcaggtttg 1560
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gcagattggg agaggcacat tcccttgga cagaggctac aggttgaggc tttttttccc 2160
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aagtgttaag tgatgtgctt attgagagca actccgggtg tcttttaaaa ttagagaaa 2280
aggtgacagt ttaaggaaaa atatatatag aataccagaa atgccgttta cccggagaat 2340
ttttttctcc ccatttgttt tgtttttact caatgacacc atttttagtt ttatttctctg 2400
atagcaaaag gaaaaaaac acccatccct caaaaaggcc aagggtccgt cccctgttg 2460
tcggtgattt gtttgtcttt ctgatagggt gaaaattgtg taataaactt gatgacgctg 2520
tcaatctttt atactgcatt gtattttttt ctttttgtaa caaatntttt ttaataataa 2580
tggggtgtga gctgttaaaa aan 2604

```

<210> 150

<211> 685

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (342)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (641)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (682)

<223> n equals a,t,g, or c

<400> 150

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cccggtaaaa ggatgctgag tccggagcgc ctagccctac cggactacga gtatctggct 120
cagcgacatg tcctcaccta catggaggat gcagtgtgcc agctgctaga aaacagggaa 180
gatattagcc aatatggaat tgccagggtc ttcactgaat attttaacag tgtatgccag 240
ggaacacaca ttctctttcg agaattcagc ttogtccaag ccacccccca caatagggtta 300
tcattttttac gggccttctg gagatgcttc cgaactgtgg gncaaaaatg gcgatttgct 360
gaccatgaaa gaatatcact gtttgctgca attactgtgt cctgatttcc cgctggagct 420
caytcagaaa gcagccagga ttgtgctcat ggacgatgcc atggactgct tgatgtcttt 480
ttcagatttc ctctttgcct tccagatcca gttttactac tcagaattcc tggacagtgt 540
ggctgccatc tatgaggacc tgctgtcagg caagaacccc aacacagtga ttggggccga 600
cctcgtccag tgggcagcac cgccacgacc tgcttgggc ngggcccgcc acgcttgaag 660
gcgtggaggc ctogttttct ancag 685
```

<210> 151

<211> 1103

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1098)

<223> n equals a,t,g, or c

<400> 151

```
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gagcgttcct cccagctcg aatgcccggc ggccgaggcg gctagagcgt cgcctcctcc 120
cggggaaccg cgtgtgacct tccagcccgc ggaccgatgc tgccggcggc cgctcgcccc 180
ctgtgggggc cttgccttgg gcttcgggcc gctgcgttcc gccttgccag gcgacaggtg 240
ccatgtgtct gtgccgtgcg acatatgagg agcagcggcc atcagaggtg tgaggccctc 300
gctggtgcac ccctggataa cgccccaag gagtaccccc ccaagataca gcagctggtc 360
caggacatcg ccagcctcac tctcttgaa atctcagacc tcaacgagct cctgaagaaa 420
acgttgaaga tccaggatgt cgggcttgtg ccgatgggtg gtgtgatgtc tggggctgtc 480
cctgctgcag cagcccagga ggcggtggaa gaagatatcc ccatagcgaa agaacggaca 540
catttcaccg tccgcctgac cgaggcgaac cgtggacaaa gtgaagctga tcaaggaaat 600
caagaactac atccaaggca tcaacctcgt ccaggcaaag aagctggtgg agtcctgcc 660
ccaggaaatc aaagccaatg tcgcaaaagc tgaggcggag aagatcaagg cggccctgga 720
ggcgggtggc ggcaccgtgg ttctggagta gcctccagct cggaggactt gtgttcaggg 780
gtcctggggc ccgggcgagg tccgcctc ccgtggtcac tggctccgcc ccagcacca 840
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gcacagacct actgtggcgg gagggagggg cggctgctgc ctggtgacgg cacccgagg 960
cccaccagga cgcgccaccg gtgaatgtgc ctctggtggc tgctgagaaa aataactgt 1020
gcagctcaga aaaaaaaaaa aaaaaaaaaa aaaaaagggc ggccgctcta aaagttcct 1080
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ccaagggccc aagtttange tgc

1103

<210> 152

<211> 1117

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1069)

<223> n equals a,t,g, or c

<400> 152

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gctcctggtc cactgctgc tcagcccagt gccctcacag gacaccagct tcccaggagg 120
cgtctgacac agtatgatga tgaagatccc atggggcagc atcccagtac tgatgttgct 180
cctgctcctg ggctaatacg atatctccca ggcccagctc agctgcaccg ggcccccagc 240
catccctggc atcccgggta tccctgggac acctggcccc gatggccaac ctgggacccc 300
agggataaaa ggagagaaaag ggcttccagg gctggctgga gaccatgggtg agttcggaga 360
gaaggagagc ccagggattc ctgggaatcc aggaaaagtc ggccccaagg gcccctatggg 420
cctaaagggtg gcccaggggc ccctggagcc ccaggcccca aaggtgaatc gggagactac 480
aaggccaccc agaaaatcgc cttctctgcc acaagaacca tcaacgtccc cctgcgcgcg 540
gaccagacca tccgcttcga ccacgtgatc accaacaatga acaacaatta tgagccccgc 600
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gagggaacct gtgcgtgaac ctcatgcgtg gccgggagcg tgcacagaag gtggtcacct 720
tctgtgacta tgctataaac accttccagg tcaccaccgg tggcatggtc ctcaagctgg 780
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gctgcttcac atccaccccg gctcccctg ccagcaacgc tcaactctacc cccaacacca 960
ccccttgccc agccaatgca cacagtaggg cttggtgaat gctgctgagt gaatgagtaa 1020
ataaactctt caaggccaaa aaaaaaaaaa agcacttaag tattcatcna acaatcacc 1080
agtagcgggtg atccagactg aaaagatgcg agacgcc 1117
```

<210> 153

<211> 2038

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1490)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1979)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1992)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2010)

<223> n equals a,t,g, or c

<400> 153

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agaggacccg gcgggcggcc tcgcgggtca ggacacaatg tttgcacgag gactgaagag 120
gaaatgtgtt ggccacgagg aagacgtgga gggagccctg gccggcttga agacagtgtc 180
ctcatacagc ctgcagcggc agtcgctcct ggacatgtct ctggtgaagt tgcagctttg 240
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cctttgccca gtcacctcag cacaggcacc aaggcacctg cagagcagcg cctgggagat 540
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ctacgacctg gacacagtac tgacaggcat gatggggggg gccaggcccg gccctgcga 720
agggctcgag ggcttggtc cgccaccccc rggccctagc tccagctgca agtccgacct 780
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tcaaggcagt gttcctggag gctccctca gggtcagccc atgcacctgc cctgrrtgag 1740
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caaaaggtta aggttaggtt gaagtctaga atgaaagaaa tctgaatcca tgtcattcat 1860
aacccttga tctgtagtgt catgggtgct gccgcagagg aagttgagct gggggtgcct 1920
gccagccttt cactcctgc ccgcttcaa cccaaatgct ccctgtttcc caagcttnc 1980
ccaaatttcc tnaaccttta accaaaaagn ggggtttcct ttggggcaaa aaggccat 2038
```

<210> 154

<211> 645

<212> DNA

<213> Homo sapiens

<400> 154

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ccccacggc tctgccacct gtagtgctcg atggttccct catcagcttc agrccaagtt 180
cgaagtcact atgtagactg gagaatgtgg cgcgatgtga agagacgaaa aatggcctat 240
gaatacgcag atgagaggct acgtattaat tcaactcagga agaataccat tttgccaaaa 300
attcttcagg atgtggctga tgaagaaatt gctgccctcc cccgggatag ctgtcctgtt 360
agaatcagaa atcgggtgtgt tatgacgtcc cgtccgcgtg gtgtgaagcg gcgctggagg 420
cttagtcgta tagtcttccg tcacttagct gaccatgggc aactttctgg gatccagcga 480
gcgacatggg aaatgagctc cagaacctat tgagcttgca ggggaagccaa gcttgagatt 540
ccagcaagca aagatttttt ttaatagacc aaaccctaata ctctacaggg gcccagtaga 600
gttgtttggc ctacctgatg ctatctctaa actactttta aaatg 645
```

<210> 155

<211> 1596

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1520)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1542)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1559)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1587)

<223> n equals a,t,g, or c

<400> 155

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tctagcttac taaaaaaaga gttgtatata atatttaaga tgctgagtat ttcataaggaa 180
agctgaatgc tgctgtaaag tgctctttaa gtcttttttt tttttaatcc ccttctaattg 240
aatgaaacta ggggaatttc aggggacaga gatgggattt gttgtatgat aaactgtatg 300
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actcttgttt tccctcatga taataaattt gtcataactc agtaacatga acttgcccct 420
agaggtagtt gttaataatt ttgaaatatt aaggctctgc caagcttctg atgattcaca 480
cctgtactac tgattattaa gcaggacaga ctgagctttc tgttgcaaat accttgaggg 540
agaaagtaat ttctaaatat acagagaggt aacttgacta tatatgttgc atcctgtgcc 600
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tcccttcata ttaatatattg ataaagattt taatttatgt aaaacttcta aagcagaatc 660
aaagctcctc ttggggaaat ggcaagtctt taggataggg aagaccctgt atgaatagta 720
ccaaagcatt accgcatggg agagaacaca ctcgattaaa aatgttaagc tatctgaaaa 780
ataaaatgtg caagtcttca ggatggcaca aaacaaaggt taatgcttct tggggcacat 840
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ttattttctt tcactctgta ttaaaagtaa aacttactaa aagaaaagag gtttgtgttc 1080
acattaaatg gttttggttt ggcttctttt agtcaggctt tctgaacatt gagatatcct 1140
gaacttagag ctcttcaatc ctaagatttt catgaaaagc ctctcacttg aacccaaacc 1200
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tcaaaatgag ggagaaacat ttgcctgcct tgtaataaca agactcagtg cttatttttt 1320
aaactgcatt ttaaaaattg gatagtataa taacaataag gagtaagcca ctttttatag 1380
gcacctgta gttttatagt tcttaatcta aacattttat atttccttct tttggaaaaa 1440
acctwcatgc tayaagccac catatgcaca gactatacag tgagttgagt gggctctcca 1500
cagtctttga ggggattacn aagtccgcca tatcaccccc gngtattgga aggattttng 1560
aattgggcga tggggggaaa caaaggnccc ccccg 1596

```

<210> 156

<211> 1654

<212> DNA

<213> Homo sapiens

<400> 156

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atgaagaaac tgaggccctg tgatgtgaag tgacttgccc ccagccaca cagcwggacc 60
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1654

<210> 157

<211> 1815

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1808)

<223> n equals a,t,g, or c

<400> 157

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<210> 158

<211> 1397

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (1330)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1353)
<223> n equals a,t,g, or c

<400> 158
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<210> 159
<211> 956
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (930)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (941)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (945)

<223> n equals a,t,g, or c

<400> 159

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tttgtttttg cttgcctcct gattatctgt actgtgggtt taagtatgct actttctctc 180
agcatccaat aatcatggcc cctcaattta tttgtggtca ccaggggttc agagcaagaa 240
gtcttgcttt atacaaatgt atccataaaa tatcagagct tgttgggcat gaacatcaaa 300
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<210> 160

<211> 2265

<212> DNA

<213> Homo sapiens

<400> 160

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<210> 161

<211> 998

<212> DNA

<213> Homo sapiens

<400> 161

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caatgcggct gattggcaca atttaacctt gaagtgggaa accctcaatg atgcaggttt 180
taccactgca aataatattg ccaacttgaa aatcagttta ttgaataaag acaagataga 240
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cgaggaactg gagaagctgt gtgaggaact gcaggccacc ttggatgggt tgacccaaat 360
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<210> 162

<211> 1750

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (704)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1724)

<223> n equals a,t,g, or c

<400> 162

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<210> 163

<211> 3096

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3071)

<223> n equals a,t,g, or c

<220>
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<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3096)
<223> n equals a,t,g, or c

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<210> 164

<211> 1216

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (203)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1200)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1211)

<223> n equals a,t,g, or c

<400> 164

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ttgctgcgat accatggaag gaggcggggg aagcggcaac aaaaccacag ggggattggc 180
cggttttttc ggagccggcg gancaggtta ctgcacgcg gatttggtg gcgtcccgt 240
aactggtatg aacctctgt ctcttattt aaatgtggat ccacgatacc tcgtgcagga 300
tacagatgag tttattttac ctaccggagc taataaaaacc cggggcagat ttgagctggc 360
cttctttacg attggaggat gttgcatgac aggggctgcg tttggtgcaa tgaatggtct 420

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tcggctagga ttgaaggaaa ccagaaacat ggccctggctcc aaaccaagaa atgtacagat 480
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gctctatagt gcatttggtg tcatcattga gaaaacacga ggtgcagaag atgaccttaa 600
cacagtagca gctggaacca tgacaggcat gttgtataaa tgtacagggtg gtcttcgagg 660
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ggggtccaag ntttgg 1216

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<210> 165

<211> 780

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (696)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (726)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (739)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (759)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (773)

<223> n equals a,t,g, or c

<400> 165

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gcaaaatgct ggaattacag gtgtgagcta ccatgcccat ttatttattt atttatttat 60
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agcatttaaa agaaagtctt gtccctacag attccctgac ctcagctacc catgaagggt 240
gggaagagga gtccttagca agaagtccag gaagttgaca acctcctcar acctgatagg 300

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141

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acactcctct ctccaccctg cctcctgact gatttaatct caggggtgtg aggacctctg 360
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tgaaacagat cctagaggat tcccaagtga taggataaat agagaggtac tgagacttcc 480
tggcgtgggt gacctctccc aggctggcca acctcccca ttcagaattt gctgagcacc 540
aggagtgaat gaagtaaagg aagcccctag gaggttcaaga agcagagatt tccaggtcca 600
tgcaccaaag ytcattgtgt caattytcat gaaaggcytc actcmgttaa aaaattttgt 660
atcwtgaaag ggtaaatgaa ttaattagtg aatctnggtt ctaagcccat ggcttactag 720
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<210> 166

<211> 3380

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3373)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3379)

<223> n equals a,t,g, or c

<400> 166

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gccgccgaga gccttagccg acggaaactg gacactggac cggcagcgcc atgagactcc 180
tccccgcgtt gctgctgctt ctcttactcg tggtccctgc cactgtcttg ttccgagcg 240
gccccagagg ctygttagca gtggcacaag atcttacaga ggatgaagaa acagtagaag 300
attccataat tgaggatgaa gatgatgaag ccgaggtaga agaagatgaa cccacagatt 360

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tggtagaaga taaagaggaa gaagatgtgt ctggtgaacc tgaagcttca ccgagtgcag 420
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tggtaggctt taccaacaag ggtacagaag attttattgt tgaatcctta gatgcctcat 540
tccgttatcc tcaggactac cagttttata tccagaatth cagagctctt cctctgaaca 600
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tgggcggacg accatttggt ttggtcatca atctgaacta caaagatttg aacggcaatg 720
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<210> 167
<211> 1645
<212> DNA
<213> Homo sapiens

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<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1640)
<223> n equals a,t,g, or c

<400> 167
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aaaaaaaaacc cgaggggggn cccgg 1645

<210> 168
<211> 1148
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1076)
<223> n equals a,t,g, or c

<400> 168
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cacgggcctt gagaaatgtg gctctgttac ctctctggtg cggccctgtt ctgcagggca 120
ggaggctcca ttcccatccc tcagaagtta ttggggagg tgacttcccc tctgttcccc 180
aagccttacc ccaacaactt tgaaacaacc actgtgatca cagtccccac gggatacagg 240
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gatccccagc cccagtgccca gcacctgtgt cacaactacg ttggaggcta cttctgttcc 600
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<210> 169
<211> 2063
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1219)
<223> n equals a,t,g, or c

<400> 169
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ctcttgtccc aacttcctcc tggatcccct ggccagctgg ggcaggaacg gccaacatca 180

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cccatgggct gggttaagttc ccacacaact agaattgggt catggggatc ccttttcacc 240
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ggctactacc cagttggccc tgtgtaaaaa cgtccaagct gaaaaaaaaa aaccctctc 360
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gtagtcccat tgatgtactt tacctgaaac aacccaaagg gccctttct ttctctgag 1920
gattgcagag gatatagtta tcaatctcta gttgtcactt tctcttcca ctttgatacc 1980
attgggtcat tgaatataac tttttccaaa taaagtttta tgagaaatgc cagtgtgcaa 2040
aawraaaaaa aaaaaaaaaa aaa 2063
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<210> 170

<211> 2916

<212> DNA

<213> Homo sapiens

<400> 170

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atgtgcagca gagtttcttc ctggcagaga cattgaaata tttgtacctt atattttctg 180
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<210> 171

<211> 2529

<212> DNA

<213> Homo sapiens

<400> 171

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gatatcatcg ttgaactatt agctttgaag tttaaatcca atggagaaga ctcaagaaac 240
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gagaaccaa ctttcacagc catttaatca ttggctgaaa gttccagagg acaagctaca 360
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2529

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<210> 172

<211> 811

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (805)

<223> n equals a,t,g, or c

<400> 172

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cgacggggccc  gaggtcaggg  cggaggcgtg  ttccggggag  cgcacctacc  aggagctgct  180
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gaggtatact  gccatctccc  agtcattgtg  gaggaccgaa  atttgcccta  tgtctatatc  420
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tagtctctctg  tccatcagtg  ccatttcctg  tagaactaaa  ggctgttcca  agaattgtgg  780
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```

811

<210> 173

<211> 2221

<212> DNA

<213> Homo sapiens

<400> 173

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ccacagtaaa  agctgaaagt  agtgatggca  tccacataat  tttgaagtga  tgtcttatat  180
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agaagtcttg  ggattggatt  ttaccatatg  aaatgtttca  tattgaaaac  acaagatgac  300
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gtctttttac  actgtatgcy  gtttggaat  gaatgtagaa  acttactgtg  ggcatttacc  540
tttctgtgcc  agtttggtct  ttattgcctg  aaccttatgc  tgacctggag  aggagatggg  600
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t                                                                                   2221
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<210> 174

<211> 757

<212> DNA

<213> Homo sapiens

<400> 174

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cggttcttag aagagtactt gagctccact ccgcagcgtc tgaagttgct ggacgcgtac 180
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actgtgtgtc agaacaactt tctaacaaac atttattaat ccagcctctg cttttcatta 660
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aaaaaaaaaa aaaaaaaaaa aaaaaagggg gggggggg                                                                                   757
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<210> 175

<211> 2221

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2211)

<223> n equals a,t,g, or c

<400> 175

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<210> 176

<211> 1513

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (773)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (791)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (965)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1461)
<223> n equals a,t,g, or c

<400> 176
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ggcggaggct gacgaggagg cggatcccc ggcgtcagat ctgccgacac cccaggccat 180
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<210> 177
<211> 4083
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (157)
<223> n equals a,t,g, or c

<400> 177
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4083

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<222> (2664)

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<222> (2699)

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<400> 178

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<212> DNA

<213> Homo sapiens

<400> 179

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<211> 2251

<212> DNA

<213> Homo sapiens

<400> 180

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<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<400> 181

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<211> 3517

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<400> 182

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<211> 858

<212> DNA

<213> Homo sapiens

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<220>
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<400> 183
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 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
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 <222> (2378)
 <223> n equals a,t,g, or c

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<210> 185

<211> 2885

<212> DNA

<213> Homo sapiens

<400> 185

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<210> 186

<211> 2178

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (2117)

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<220>

<221> misc feature

<222> (2132)

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<222> (2158)

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<222> (2168)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2174)

<223> n equals a,t,g, or c

<400> 186

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<210> 187

<211> 1254

<212> DNA

<213> Homo sapiens

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<222> (7)

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<220>

<221> misc feature

<222> (1027)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1110)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1156)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1195)

<223> n equals a,t,g, or c

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<210> 188

<211> 1479

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1464)

<223> n equals a,t,g, or c

<400> 188

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<211> 3411

<212> DNA
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<210> 190

<211> 2617

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

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<222> (10)
<223> n equals a,t,g, or c

<220>
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<211> 3144

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (3144)

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<211> 2570

<212> DNA

<213> Homo sapiens

<220>

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<210> 193

<211> 1524

<212> DNA

<213> Homo sapiens

<400> 193

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<210> 194

<211> 1678

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (621)

<223> n equals a,t,g, or c

<400> 194

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tcaacaaaat ctaattttta attgtctttt tcttttctat taagggtttt ctttttcagt 1620
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<210> 195

<211> 2824

<212> DNA

<213> Homo sapiens

<400> 195

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<210> 196

<211> 4260

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4199)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4209)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4254)

<223> n equals a,t,g, or c

<400> 196

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<210> 197

<211> 3117

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<400> 197

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<210> 198

<211> 2483

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (149)

<223> n equals a,t,g, or c

<400> 198

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<210> 199

<211> 1238

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (634)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1209)

<223> n equals a,t,g, or c

<400> 199

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tgggatggag gtcacggggc gggaaggggg cccaactgtg gtgaacagcc cggctggaag 180
aacagagaga cagtggctct ggggttaggc tcaggaagtg gatctctgca cctccttgag 240
tgtccccaag gagtccccgt ggagaaggcg ggaacccagc ctctgctccg cccccaagc 300
tgaktgccct ggtgargggt atctactctg tgggaagggt gccttttctc aatgttcaca 360
aaggcatcag atgggccggc gcgatgctcc tcttcattag tggatggaga aacagggtttg 420
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tggactccct ggtggtgtgc gaggtagacc cagagctaac agaaaagctg aggaaattcc 540
kcttccgaaa agagacagac aatgcagcca tcataatgaa ggtggacaaa gaccggcaga 600

```

```
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aaaaaacng ggggggtttt ttggggggcc cggggccc 1238
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<210> 200

<211> 640

<212> DNA

<213> Homo sapiens

<400> 200

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gccactgttt gtggaagata taatgacaat ggtgctgtgt aaacccaaac ttttaccctt 180
aaaatctctg actctggaaa aactagagaa aatgcatcaa gcagcacaga atacaattcg 240
ccaacaagaa atggcagaaa aggatcaacg gcaaataacc cactgaatga taactgagca 300
ctttagggaa caacctgcct tatctactat ttaacaataa ctagaaaata tgcttctgtg 360
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agttaaacta tgaaccmagt tttatggggg ttaagtcatt tttttagaat tgcaaatata 540
attatttgtt caccattcct attgctatct tttatagata acattcttgg gatcttttat 600
agcattcttg ggcacaaggg attaaatata acttttatat 640
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<210> 201

<211> 1439

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1439)

<223> n equals a,t,g, or c

<400> 201

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gaccatttac aattggataa agttcatctt tttggcgctt ctttgggagg ctttttggcc 240
cagaaatttg ctgaatacac tcacaaatct cctagagtc attccctaatt cctctgcaat 300
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<210> 202

<211> 1247

<212> DNA

<213> Homo sapiens

<400> 202

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tgtgccttct tatagtgtct actcattggg ctttgttctg ccagtgata acaatgggat 180
aacgcctgct acacatcttc attgtgaaac ccttcccctg tgctgagatt aaatgaactc 240
taagattatt aaatagtata ttttcttga cagcctagcg tttgatgatt ttaaagcctt 300
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gagcacctac attgtgtgcc aggtagttaa ataggtgctt tcatacacat tgtctcaatt 480
cctgtgaggt cagaattatc tctgcatttg aaacttgagg aaacatgctc agagtgcagg 540
aagcttctt gcctgagatc acctagaaag gaacctcag agccggcaac tgaatcttg 600
tccctgtgat gtcaagccca ttgctctccc actgcagaac atggcctcta gattaatgcc 660
accgatcag gaacacctcc gacagtcttg aaatacccc atgttgccct gtttgttttt 720
tccttctggc ttcttctatt acagtctctt cattggaagc tctgtaggcc aaggccagag 780
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aattcatcat tgacaataaa tgtaagaaat tggaataaaa aagagagacc tgctgttatt 1080
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cactgaagaa taataatcca ttcagtaatg ttatagttat cctcaatcta aatatgtcaa 1200
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<210> 203

<211> 746

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (626)

<223> n equals a,t,g, or c

<400> 203

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tggaagagag ccttaacagg caaccatgtt gccagtgagg ttttctgtgc ctttgggtgc 180
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tccgcagcg acgcggtctg caagactgtt tgtgttgagg gggccggact tcaagtgat 360
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gtgaacccat agtgcctcca ccagtnaaaa gacaattcat ctgggcactt tcatcgtgtt 660
aattagaaga cttgattgta attttgatat aaaggtttaa atgcacagag rgcmgggtmc 720
argsagccat agttcacaat gttgat 746
```

<210> 204

<211> 2170

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2166)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2168)

<223> n equals a,t,g, or c

<400> 204

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<210> 205

<211> 2620

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (563)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1838)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2596)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2609)
<223> n equals a,t,g, or c

<400> 205
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<210> 206

<211> 1014

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1005)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1007)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1009)

<223> n equals a,t,g, or c

<400> 206

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<210> 207

<211> 1367

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (649)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1363)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1364)

<223> n equals a,t,g, or c

<400> 207

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 atcagagcca caggacattg agtggttggtg ggccttagaa tactacgaca aagcctttga 180
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 agtgtccttc atcaacatca agacactcaa tgagtgggat tccaggcact gtaatggcgt 780
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<210> 208

<211> 1498

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1436)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1460)

<223> n equals a,t,g, or c

<400> 208

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tgaggataaa gtacagatat ttcatgtaga attaatgct agttatgatg cttgtggata 180
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<210> 209

<211> 2365

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<400> 209

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tctcttgcca ggcttcccc ttgatcgact tcttggtttt ctctctggat ggaacgggca 180
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gaaaaaaaaa aaaaaaaaaa aaaaaa 2365
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<210> 210

<211> 1010

<212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (1007)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1009)
 <223> n equals a,t,g, or c

<400> 210
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<210> 211
 <211> 1548
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1513)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1522)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1529)
 <223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1547)

<223> n equals a,t,g, or c

<400> 211

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<210> 212

<211> 1529

<212> DNA

<213> Homo sapiens

<400> 212

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<210> 213

<211> 2575

<212> DNA

<213> Homo sapiens

<400> 213

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```

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<210> 214

<211> 2040

<212> DNA

<213> Homo sapiens

<400> 214

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cagctactgt ctcagttttt tgaagttag caatggcgct tttctctgct gagaccaatt 180
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```

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<210> 215
<211> 324
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (268)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c

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<400> 215
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tttagaaaaga ggatatgtta gcagggcgca gtggctcaca cctgtaatcc cagcactttg 180
ggaggctgag gcagggtgat tgcctgaggt caggagttag agaccagcct ggacaacatg 240
gtgaaacccg tgtctgctaa aagtacanaa attagcaggg ggtngtggca ggcacctgta 300
aatnccagct acttcaggga ggct 324

```

```

<210> 216
<211> 1475
<212> DNA
<213> Homo sapiens

```

```

<400> 216
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aacaactgcc ctccacacaa tagtctgtgt ggctacaagg agccccctgt gtcctgcctc 180
atcatcatgt gtgaaccaat ccagcaccca tcccacatgg acatccccct ggatagcaag 240
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gcgctagact ccgagaacat gaccaagagt caccagaact tgtgcaccaa gggtcaggta 420
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ttcaagcccc acctgatggc catgaacagc atctttgata gcagtggcaa gggggctgtg 660
tctgagaaga gtaacttcct attcaccaag ctaaaggagg agcccaggga gctggccccg 720

```

```

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```

<210> 217

<211> 1387

<212> DNA

<213> Homo sapiens

<400> 217

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accatccaga aaataaatgc tgaggggaca cagaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
aaaaaaaaa 1387

```

<210> 218

<211> 1833

<212> DNA

<213> Homo sapiens

<400> 218

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<210> 219

<211> 2592

<212> DNA

<213> Homo sapiens

<400> 219

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```

2592

<210> 220

<211> 2404

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2399)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2404)

<223> n equals a,t,g, or c

<400> 220

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<210> 221

<211> 2670

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<400> 221

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<210> 222

<211> 1756
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1714)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1742)
<223> n equals a,t,g, or c

<400> 222
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gacctgagt gtgccccac ccgcatgg cccggtgct gcaggcgtcc tgcctgctt 180
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```

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<210> 223

<211> 2379

<212> DNA

<213> Homo sapiens

<400> 223

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gccatgtcca acccagcgc cccaccacca tatgaagacc gcaacccctt gtaccaggc 180
cctcygcccc ctgggggcta tgggcagcca tctgtcctgc caggagggtg tcctgcctac 240
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cgaaagggtt actccatcat ctccgtgcag ctgctcatca ctgtggccat cattgtctac 480
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<210> 224

<211> 2511

<212> DNA

<213> Homo sapiens

<400> 224

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tctgcttttg cagaactggc tgtgggttct cgatggtacc atggaggatc acagcccac 180
cagatccggc gaagactaat gatggtggct ttcctgggag catctgcagt aactgcaagt 240
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acaccagaag attttgtgag atccataaca ccaatgaaa aacaaccaga acacttgggt 600
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<210> 225

<211> 601

<212> DNA

<213> Homo sapiens

<400> 225

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ggcgaggag tgccgcagcc cgcagctcag cccctctctt ctccgcagga tgatcacgga 180
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aacttttatt tcctcagagt cttccttaat cctatggaac aagaagctgc cactgaatag 480
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a 601

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<210> 226

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (484)

<223> n equals a,t,g, or c

<400> 226

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ccctggggag tgtaacatga ctgccgcccc atgtgtgtga gaggcgtcct ctgggagagc 360
atggatcctg aggtcccagg attgtcagct gacctctgtc ctgtgtgccc agtggcccca 420
ggtgacgtgt cttcaagaag aggtctgakt gcggtgcttg taaggkctca gccttagatc 480

```

caanggaaca gttccaaagg aaagttc

507

<210> 227

<211> 1041

<212> DNA

<213> Homo sapiens

<400> 227

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tgcatacagc cattggggga a 1041
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<210> 228

<211> 1658

<212> DNA

<213> Homo sapiens

<400> 228

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gctgagtccg gccatggtag ccctctccaa caagctgaag ctgaagcgac actggtagta 180
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cctccccacc ttcaatgact tctaatttat attatccata ggtttctctc cctccttctc 960
cttctcacac acaactgtcc atactaacia gtttggtgca tgtctgttct tctgtaggga 1020
gaagctttag cttcatttta ctaaaaagat tcctcgttat tggtgttgcc aaagagaaac 1080
```

```
aaaaatgatt ttgctttcca agcttggttt gtggcgtctc cctcgagag cccttctcgt 1140
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actctttgct ctaatttttg aaaaaagaa atgtgaaggg tcaactccaa cgtatgtggt 1260
tatctgtgaa agttgcacag cgtggctttt cctaaactgg tgtttttccc ccgcatttgg 1320
tggatttttt attattattc aaaaacataa ctgagttttt taaaagagga gaaaatttat 1380
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ggaaatggaa tcctgctcac aaaatcactt taagatcttt tcgaagctgt taatttttct 1500
tagtggtgtg gacactgcag acttgtccag tgctcccacg gcctgtacgg aactgtgga 1560
aggcctccct ctgtcggctt tttgccayck gtgatatgcc ataggtgtga caatccgagc 1620
agtgggagtc attcagcsgg grcacttgcg ccgctaata 1658
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<210> 229

<211> 1616

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<400> 229

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gcgggagtggt gcgcccgcgc agagtgggag gcgaaggggg caggccaggg agaggcgag 120
gagcctttgc agccacgcgc gcgccttccc tgtcttgtgt gcttcgcgag gtagagcggg 180
cgcgcgccag cgcggggatt actttgtctg tagtttcggg tcgcggcagc ggcgggtgta 240
gtctcggcgg cagcgccgga gacactagca ctatgtcggg ggagcagttc ggcggggacg 300
ggcgcgccgc agcggaacg gcggcggtag gcggctcggc gggcgagcag gagggagcca 360
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gaaccgcgtc tggaggcacc gaaggggcag cgccgagtcg gagggggcga agattgacgc 480
cagtaagaac gaggaggatg aaggccattc aaactcctcc ccacgacact ctgaagcagc 540
gacggcacag cgggaagaat ggaaaatggt tataggaggc cttagctggg aactacaaa 600
gaaagatctg aaggactact tttccaaatt tggatgaagt gtagactgca ctctgaagtt 660
agatcctatc acagggcgat caaggggttt tggctttgtg ctatttaaag aatcggagag 720
tgtagataag gtcattggatc aaaaagaaca taaattgaat gggaagggtg ttgatcctaa 780
aagggccaaa gccatgaaaa caaaagagcc ggttaaaaaa atttttgttg gtggcctttc 840
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catagagctc cccatggaca acaagaccaa taagaggcgt gggttctgct ttattacctt 960
taaggaaaga gaaccagtga agaagataat ggaaaagaaa taccacaatg ttggtccttag 1020
taaatgtgaa ataaaagtag ccatgtcgaa ggaacaatat cagcaacagc aacagtgggg 1080
atctagagga ggatttgag gaagagctcg tggaaagggt ggtgaccagc agagtgggta 1140
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cctttccccc agtattgtag agcaagtctt gtgttaaaag ccagtggtga cagtgtcatg 1500
atgtagtagt gtcttactgg ttttttaata aatccttttg tataaaaaaa aaaaaaaaaa 1560
aaaactgggg gggggggccc gtccccattg gccctwtggg gggcggtttt aaaaat 1616
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<210> 230

<211> 1928
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1749)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1804)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1854)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1879)
<223> n equals a,t,g, or c

<400> 230
ggacacgagg gaaaggggtc tccagtgtat ttctccagcc ggggncttaa atccctcttg 60
ggagatatgg gatgggggtg atcggaat aaattttttt aaatccctac caaaatatca 120
gctggctttt tttaaaaaat caaataccac aatctaaata gactccaaca gaaaattcac 180
catctcctct gaccttttct tccatctca tgctgtgaac tgtcttctgt tgactttatc 240
gctacctttc ttcattctgt tattcaacca tgatctctcc gtttcatttt ataagcgttt 300
tattaatttc atttatgtat ttatttttga ctaggtaatg catgtccatg gacacaaaaw 360
tcacaagggt tgtaaatgag aaaagacgtg aggttccttt tgttctttac ctgtggcctc 420
cctgccctac acgggggactc taggggtgaa tgtagcaaag cccatccacc agccatgtac 480
tcccccccaa cccggccagg ctggagcgac cgtgtctggg gagccgagcc ccgcttctcg 540
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cccacaggcc ccgcccctcc tcccaccctc gttcagcctg tccagacaga agctggggcc 660
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gcctaaactg atgtaccagg agctgaaggt gcctgcagag gagcccgcca atgagctgcc 840
catgaatgag attgaggcgt ggaaggctgc ggaaaagaaa gcccgctggg tcctgctggt 900
cctcattctg gcggtgtggt gcttcggagc cctgatgact cagctgtttc tatgggaata 960
cggcgacttg catctctttg ggcccaacca gcgcccagcc ccctgctatg acccttgcca 1020
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ccttccacca gccaggcctg gctgggcctg ctcgccggtg cgcacagcag cctggacatc 1140
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cagggtgagg aggtcctccg gcagctgcag accctggcac caaaggcggt gaacgtccgc 1260

```

atcgctgtga gcaagcccag cgggccccag ccacaggcgg acctgcaggc tctgctgcag 1320
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aagtcttggg tgggtgacca gaccacttc tacctgggca gtgccaacat ggactggcgt 1440
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gacctgacca agatctttga ggctactgg ttcttggggc aggcaggcag ctccatccca 1560
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ggccgcactc cagacctgaa ggctctactc aacgtggtgg gacaatgccc ggagtctcat 1740
ytacgtcgn tttcatgaac tacctgcca mtytgagtt yttcccaacc tcamaggttc 1800
tggncctgcc attgacgatg ggtgcggcgg ggcaactacg agcgtggcgt caangtgcgc 1860
cttgctcata agctgcttng gggacactcc ggaagccaat ccatgcgggc ccttcctggg 1920
tctcctct                                     1928

```

<210> 231

<211> 1235

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1235)

<223> n equals a,t,g, or c

<400> 231

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gggcgagggt ccccggtatc cgggtctatc acggtctcgg gcaggagtc tgaatctttt 60
aggggagtgg gcccaagccg ggtgcaaaga acggggaagg gccttccctg gctccgtccc 120
ggccactttg accgaatcag cctgttcttt cccgaccccg tctcctatcs cckagaactg 180
ccacgtgggg atgagatttg ctgggctggt agcggcggct gctgcgggag gtcccggcca 240
cgtgaagcca gcctaactga gctctggact ttggggacag ctgtcagtgg cctaggccgc 300
aggacaccat gaagcaactg ccagtcttgg aacctggaga caagcccagg aaagcaacat 360
ggtacacctt gactgtccct ggagacagcc cctgtgctcg agttggccac agctgttcat 420
atttaccccc agttggtaat gccaagagag ggaaggctct cattgttggg ggagcaaatc 480
caaacagaag cttctcagac gtgcacacca tggatctggg aaaayaccag tgggacttag 540
atacctgcaa gggcctcttg ccccggtatg aacatgctag cttcattccc tcctgcacac 600
ctgaccgtat ctgggtattt ggaggtgcca accaatcagg aaatcgaaat tgtctacaag 660
tcctgaatcc tgaaaccagg acgtggacca mgccagaagt gaccagcccc ccaccatccc 720
caagaacatt ccacacatca tcggcagcca ttggaaacca gctatatgtc tttggggggc 780
gagagagagg tgcccagccc gtgcaggaca cgaagctgca tgtgtttgac gcaaacactc 840
tgacctggtc acagccagag acacttgga atcctccatc tccccggcat ggtcatgtga 900
tgggtggcagc agggacaaaag ctcttcatcc acggaggcct ggcgggggac agattctatg 960
atgacctcca ctgcattgat ataagtggac atgaaatggc aggaagctta aatcccactg 1020

```

```

ggggcttgct tccagcaggc tgtgctgccc actcagctgt ggccatggga aaacatgtgt 1080
acatctttgg tggrattgac tccctgcaggg cactggacac atgttaccak twtcacacag 1140
aagagcagca ttggaccttg cttnaaatct gatactcttc taccctctgg gacgatttgg 1200
accantccat gtggtatcat tccatgggca gtgan 1235

```

<210> 232

<211> 2547

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2534)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2544)

<223> n equals a,t,g, or c

<400> 232

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accagcacc cgccagagc agtgccgctg cccaaatcct cgcaggcagc tcatcaacgc 60
aattgcaact cgggctggag ccccggaact gcaagcctgg gtgtccgtgg gtccgtctgc 120
ccagccatct gctggtggca cctctccctc ctgccgcctc cctcggtgaa cccacacctg 180
cagaagtgca gctcgcccg agcagcccag gagctcagca tgcgtccccc aggcttcagg 240
aacttcttgc tgcctggcgc ctcccttctc tttgctgggt tgcagctgt tccctaaagc 300
ttctcgccat ctctgaggag ctggccgggc gccgcctgca ggctgtcccg ggccgagtcg 360
gagcgagcgt gccgcgcacc tgggcagccc ccggggggccg cgctgtgcca cggccggggc 420
cgctgcgact gcggcgctct catctgccac gtgactgagc cgggcatgtt cttcggggcc 480
ctgtgtgagt gccatgagt ggtgtgcgag actacgacgg gagcacctgt gcaggccatg 540
gtaagtgtga ctgtggcaag tgcaagtgtg accagggatg gtatggggat gcttgccagt 600
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catcatctgc tctaattgcag gtacatgtca ctgtggcagg tgtaagtgtg ataattcaga 720
tggaagtgga cttgtgtatg gtaaatcttg tgagtgtgac gatagagaat gcatagacga 780
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gcttggtctc gaatatcctt aacaattaca tgagagaggt ctggattctt attttttctg 1740
ggccattaga acatataaat gcgaaggaaa ccatgtatat tcaccactag gacaggttaa 1800

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aaagaccatt gtatgttttt ctatttctga attacgaatg aaatccgagt acctattaga 1860
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agacaatttt gattgtcaca ctgggtcggg taggaaggta tgctgcagac atttggtggg 2040
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tcactttaaa ctcaccaaag aagattctct taaagaaatt atgaaaaatg tacaatttaa 2460
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```

<210> 233

<211> 1004

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (967)

<223> n equals a,t,g, or c

<400> 233

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actggagatc tggaagccct caaaaaggaa accattgtgt taaaggaaagg ttctgaatat 180
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cacacctaca ggactggggt gaaagtggtat aaagcaacat ttatggttgg cagctatgga 300
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gcscgaggca cgtaccacaa caagtccttc ttcaccgacg atgacaagca agaccacctc 420
agctgggagt ggaacctgtc gattaagaag gagtggacag aatgaatgca tccacccctt 480
tccccaccct tgccacctgg aagaattctc tcaggcgtgt tcagcaccct gtccctcttc 540
cctgtccaca gctgggtccc tcttcaacac tgccacattt cettattgat gcatcttttc 600
ccaccctgtc actcaacgtg gtccctagaa caagaggctt aaaaccgggc tttcacccaa 660
cctgtctcct ctgatectcc atcagggcca gatcttccac gtctccatct cagtacacaa 720
tcatttaata tttccctgtc ttacccttat tcaagcaact agaggccaga aaatgggcaa 780
attatcacta acaggtcttt gactcagggt ccagtagttc attctaagtc ctagattctt 840
ttgtggttgt tgctggccca atgagtcctt agtcacatcc cctgccagag ggagttcttc 900
ttttgtgaga gacactgtaa acgacacaag agaacaagaa taaaacaata actgtgaaaa 960
aaaaaanaaa aaaaaaacyc grgggggggc ccggaaccca ttgt 1004
```

<210> 234

<211> 2110

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2067)

<223> n equals a,t,g, or c

<400> 234

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ccggagcgcg agcagtagct ggggtggcac catggctggg atcaccacca tcgaggcggg 120
gaagcgcaag atccagggtt tgcagcagca ggcagatgat gcagaggagc gagctgagcg 180
cctccagcga gaagttgagg gagaaaggcg ggcccgggaa caggctgagg ctgaggtggc 240
ctccttgaac cgtaggatcc agctggttga agaagagctg gaccgtgctc aggagcgctc 300
ggccactgcc ctgcaaaagc tggaagaagc tgaaaaagct gctgatgaga gtgagagagg 360
tatgaagggt attgaaaacc gggcctttaa agatgaagaa aagatggaac tccaggaaat 420
ccaactcaaa gaagctaagc acattgcaga agaggcagat aggaagtatg aagaggtggc 480
tcgtaagttg gtgatcattg aaggagactt ggaacgcaca gaggaacgag ctgagctggc 540
agagtcccgt tgcgagagaga tggatgagca gattagactg atggaccaga acctgaagtg 600
tctgagtgtc gctgaagaaa agtactctca aaaagaagat aaatatgagg aagaaatcaa 660
gattcttact gataaactca aggaggcaga gaccctgtgt gagtttgctg agagatcggg 720
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ttacagaatg gatcatgtcc cccttatgtt gaggtgacca cttaattgct ttcctgcctc 1620
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ttatattatt ttgaaacttt gctttgggtt tgtggcacc cccaccacc atctggctgt 1860
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ttggcttaaa atgtactctc cttttatgtg gtctcttttg ggccgattgg gagaaagaga 2040
aatcaatagg cacgttgaac gaaatgnagg ctttgaaaag accagccccc aaaaaaaaaa 2100
aaaaagggcg                                     2110
```

<210> 235

<211> 3528

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (92)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (237)

<223> n equals a,t,g, or c

<400> 235

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tctgagctct gcagctcctt tccatsggaa cttgacwtcc acctcccag agcttgctgt 60
ttttatktgc actgacttgg ccaggacggr cnactcctgc ctggkacgaa ccatgcmaga 120
gtggcamctc ccctgaggtc tggagtactg tggctgcatt gagcacgtgt cctgartasc 180
ccctcttacc cgctcaatc tccccgctg taggatggga gcggattgga ctacatngtc 240
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cgtgctgrcc tgggtgctca ctcccgccct ccttcatgag cggctttcct ctgggtgtgt 360
ccagggcatc acagagctct tctgccc aaa cccggaggcc taccagggcc tgcccacctt 420
gcctccttcc aactctctg tagcagcagc cgcagccatg gcggggatga agacagcctc 480
cggggactac atcgactcgt catgggagct gcgggtgtt gtgggagagg aggaccaga 540
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cgcacgcctc ttctttgggc cccagcaccg gcccgctcct ctctgggtgc ccaaccgcg 780
cgcactgcgc ctccgtgcca gcttctccca gccctctctc caggctgtgg ctgccatctg 840
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<210> 236

<211> 538

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (538)

<223> n equals a,t,g, or c

<400> 236

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tgacaagact gttaagctgt gggacaagag cagccgggaa tgtgtccact cgtattgtga 180
gcatggcggc tttgtcacct atgtggaytt ccacccagc gggacgtgca ttgccgctgc 240
cggcatggac aacacagtga aggtgtggga cgtgcggact caccggtgc tgcagcatta 300
tcagttgcac agtcgacgag tgaacgggct ctctttccac ccgtcgggaa actacctgat 360
cacagcctcc agtgactcaa ccctgaagat cctggacctg atggaggggc cggctgctct 420
acacactcca cggggcatca gggaccagcc aactggcca agctccatgg ggaatctgcc 480
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<210> 237

<211> 2028

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (8)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (18)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (24)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1952)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1963)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1968)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2003)
 <223> n equals a,t,g, or c

<400> 237
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 aacaatgggt cactgaagac ccaggtccag atgaagctcc cagaatgcca gaggtgctc 180
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<210> 238

<211> 1515

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1495)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1510)

<223> n equals a,t,g, or c

<400> 238

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cttctctttc ttcagccttt tgaccactta ttaattagtc catttgctag aagagtgggtc 180
aagggaaaaa cgagagatga aatttagtta agtctatgtg agcaagtga agaaggttag 240
gtaaggggag aggatggaat gcttgccctc aatgaacttt ggagcttgta tgtgagtcag 300
attgctcccc tattgctatt atctattact cttgagagct ggctgtcctt tgaaagaaag 360
aagtaatgtt ctttgaaaga aagaaaaatc tcttgctgtg tcaaacctca aaatgttgct 420
attgggggta gaargsctcc tctttatgct ttttaatgct ctttcaaacg tgttctttta 480
gaccagtttt ctaataagct ttgtaaaatg twctatccaa attagaarcg gatttgghaaa 540
tgcaaaactaa cgtgcactta gatatccaag tgggtgagct tagccactct taccatgct 600
ctttccctgg aatccctgga gacctgtcca agatgatttc catataccag catagaaaat 660

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cagaatcaag agcaaactct gagactggca caatccaaga agatttcctg gctctggctt 720
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acgcagggtg gaggctgggc tgaggattac cataatgaaa tgtactaaat cttcatttag 840
gtatgcaatt gtgaagtga ggcactctgt ttctttacag tatcagagtc caagaacagg 900
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cctatagn gn ccacc 1515

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<210> 239

<211> 1728

<212> DNA

<213> Homo sapiens

<400> 239

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gttttggtta ttataattt atcagccata tgtttatcag ccatataacc aactagatcc 180
caaatagatc catgtatttg tttccgtgat ttggccacat taataaatc ataaatttca 240
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gacacagaaa caaaatttag tacaaccttt cctagtctcc atgtcttgat tttcatcatt 600
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<210> 240
<211> 1117
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1113)
<223> n equals a,t,g, or c

<400> 240
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aaattgagaa tggatttaat taactagcat ttagccagct ttttcttgcc cttggagaaa 180
aagaatcatt ctcaacctga taatctgtta agaaaaatcc catatgaaca atctgggcat 240
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tacttttata agaaaaaaaa aaaaaaaaaa ttntctcg 1117

<210> 241
<211> 2371
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2366)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2371)
<223> n equals a,t,g, or c

<400> 241
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ggacccccgc ttgtccactg tccgccagac ctgctgctgc ttcaatgtcc gcatcgcaac 180

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agagggtggcc catggcaagg cgctctgcaa gctctcccag atgggctacc tcaggatcgc 300
tgacctgatac tccagcttcc tgctcatcac catgctcttc atcatcagcc tgagcctact 360
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<210> 242

<211> 3276

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (125)

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<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1014)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3276)

<223> n equals a,t,g, or c

<400> 242

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gccanagcaa gccaaagcaat gccagtggag ggggtggaaa ggccagcccc agtgagaaca 180
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<210> 243

<211> 736

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<400> 243

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<210> 244

<211> 2311

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<220>

<221> misc feature

<222> (983)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1471)

<223> n equals a,t,g, or c

<400> 244

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2311

<210> 245

<211> 4065

<212> DNA

<213> Homo sapiens

<400> 245

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<210> 246

<211> 1485

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (635)

<223> n equals a,t,g, or c

<400> 246

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<210> 247

<211> 1486

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1447)

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<220>

<221> misc feature

<222> (1449)

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<220>

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<222> (1472)

<223> n equals a,t,g, or c

<400> 247

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<210> 248

<211> 1994

<212> DNA

<213> Homo sapiens

<400> 248

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222

cctgtttttc tataaaacga ggcaactgga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980
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<210> 249

<211> 1661

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (810)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1627)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1630)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1633)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1648)

<223> n equals a,t,g, or c

<400> 249

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<210> 250

<211> 2358

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (292)

<223> n equals a,t,g, or c

<400> 250

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<210> 251

<211> 697

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (667)

<223> n equals a,t,g, or c

<400> 251

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cacctcatgc agggcccacc tgccaatagt aataaagcaa tgtcactttt ttaaaacatg 600
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tgcgacngtc atagctttt ctataagtgg tcacct 697
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<210> 252

<211> 2958

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2286)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2917)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2934)

<223> n equals a,t,g, or c

<400> 252

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gccaatgctg gccataaga ttctactccc ctccctgtag gktggggcgc gtggctcagc 180
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<210> 253

<211> 2527

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2171)

<223> n equals a,t,g, or c

<400> 253

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<210> 254

<211> 1183

<212> DNA

<213> Homo sapiens

<400> 254

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<210> 255

<211> 2051

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2027)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2046)

<223> n equals a,t,g, or c

<400> 255

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tttacattga tcttttgcta atgcaattag cattatgttt tgcatgtatg acttaataaa 1980
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tccttgaatc ataaaaaaaa aaaaaaaaaa aacccgaggg ggggcnnggt acccaattcg 2040
ccctanaggg g 2051

<210> 256

<211> 686

<212> DNA

<213> Homo sapiens

<400> 256

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gacagaggtg gacagccaca tcatgaaggt ggtgcagcag atcgtgcacc aggctagcgc 180
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tagcatgagg tctgcggggg cctggccggg cagggacagg gcagaggact ctgagcgccc 540
caccatgcc tgcctggcct ggtagagaag atggcacagg atggaggcgc ccaagacgg 600
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aaaaaaaaa aaaaaaaaaa aaaaaa 686

<210> 257

<211> 2322

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2319)

<223> n equals a,t,g, or c

<400> 257

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tttacctgaa cctgtggtag aagccatcac acaggagagc cttgtagctg ttggagtact 180
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ctctcccc ttagtaatag catatgcaat tgctggaacc atcagaatcg actttgagaa 300
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ctatcagaaa atagagactg tgaatgaaag ctggaatgcc ttagcaacct catcagataa 480
gctgtttttc tgggaattcca aatctacgta tatcaaatca ccaccattct ttgaaaacct 540
gactttggat cttcagcccc cttaaactat agtgatgcc tatgtgctgc taaatttggg 600
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caaagccgtc ctggccgaga gctacgagcg cattcaccgc agtaacctgg ttgggatggg 1020
tgtgatccca cttgaatatc tccctgggtg gaatgcagat gccctggggc tcacagggca 1080

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agaacgatac actatcatta ttccagaaaa cctcaaacca caaatgaaag tccaggtcaa 1140
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaant tt 2322

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<210> 258

<211> 2261

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2115)

<223> n equals a,t,g, or c

<400> 258

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aatattgcct tcaagattgt tcttacttac aagacttgct cctacttcta tgctgaaaat 120
tgaccctgga tagaatacta taaggttttg agttagctgg aaaagtgatc agattaataa 180
atgtatattg gtagttgaat ttagcaaaaga aatagagata atcatgatta tacctttatt 240
tttacaggaa gagatgatgt aactagagta tgtgtctaca ggagtaataa tggtttccaa 300
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taatagttgg ttgtgaatta aagtggcacc agctagcacc tctgtgtttt aagggtcttt 420
caatgtttct agaataagcc cttattttca agggttcata acaggcataa aatctcttct 480
cctggcaaaa gctgctatga aaagcctcag cttgggaaga tagatttttt tcccccaat 540
tacaaaatct aagtattttg gcccttcaat ttggaggagg gcaaaagtgt gaagtaagaa 600
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gatttttttt aatgtgcaga agatcaaagc tacttggaag gagtgcctat aatttgccag 900
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```

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taactaaaaa ttactgaaaa gaataaaatt tatataatgt g 2261

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<210> 259

<211> 1374

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (929)

<223> n equals a,t,g, or c

<400> 259

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tgaccgcaac aagggaacac atggcttata ctgtggaatg cctgcggggg gatgttgata 180
ttctaattga gttcctgctc aatgtcacca cagcaccaga atttcgtcgt tgggaagtga 240
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gtttctggcc agaagtcaat ggcagcaagt ggaaatttgg gacatacacc ttttgattgat 1140

```

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gagttgtaat actgatgcac acattacagg agagagctga acgttctctc agcccagagc 1200
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tttaagtggt aaaaaaaaaa aaaaaaaaaa attctgcggc cgcaaggga ttca 1374
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<210> 260

<211> 1958

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1843)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1915)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1934)

<223> n equals a,t,g, or c

<400> 260

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caggaatgaa tgactcattg gagttgctgc agtgtaatga gaatttgcca tcttcacctg 180
gatataactc ctgtgatgaa cacatggagc ttgatgacct tcctgaactt caggcagttc 240
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tgcagtgtc attttacaat agatcatctc ctgtacacat catagccact agcaaaagtt 480
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gtgatccttg gtgacaggtg gaagaaaatg aagaatgaag agagaagaat gtacacatta 1500
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gaagcaaagg ctttggctga agaacagaaa cgtttaaatc ctgactgttg gaagaggraa 1560
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aaaattgata tcctgtgggtg ccaaagtaca gtggaaagag aggagaagtg tatcntgttt 1920
tattttaatt ggtncgaagg gggatttaaa aatatgta 1958

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<210> 261

<211> 2952

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 261

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<210> 262

<211> 1367

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1316)

<223> n equals a,t,g, or c

<400> 262

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aatgtggaca ttgccactgt ctaccagatc ttccctgacg aagtgtctgg ctccaggcag 180
tttgagtggt tctatggagg aaaacaccgg aagacaggcc gggacgtggc agttaaggct 240
attgacaaac tgcgcttccc taccaagcag gagagccagc tccggaatga agtggccatt 300
ctgcagagcc tgcggcatcc cgggatcgtg aacctggagt gcatgttcga gacgcctgag 360
aaagtgtttg tgggtgatgga gaagctgcat ggggacatgt tggagatgat cctgtccagt 420
gagaagggcc ggctgcctga gcgcctcacc aagttcctca tcaccagat cctggtggct 480
ttgagacacc ttcacttcaa gaacattgtc cactgtgact tgaaaccaga aaacgtgttg 540
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```



```

atcggcgaga agtcgttccg ccgctcagtg gtgggcacgc cggcctacct ggcacccgag 660
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<210> 263

<211> 2986

<212> DNA

<213> Homo sapiens

<400> 263

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caggtggaca tttctgatgc tcttagtgag cgggataaag taaaattcac tgttcacaca 180
aagagtcat tgccaaattt taaacaaac gagttttcag ttgttcggca acatgaggaa 240
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ccagcaccac caagacctga ttttgatgct tcaagggaaa aactacagaa gcttggtgaa 360
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gcacatccta ttttgagaag agatttaaat ttccatgtct tcttggaaata taatcaagat 540
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<210> 264

<211> 1027

<212> DNA

<213> Homo sapiens

<400> 264

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tgttattaaa caaataattt agatggtgaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1020
ctacgag 1027
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<210> 265

<211> 1561

<212> DNA

<213> Homo sapiens

<400> 265

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<210> 266

<211> 1586

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1544)

<223> n equals a,t,g, or c

<400> 266

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cataagggcg gcgagatcag cctcctgtct catctggaag accaccactc tgggggtctca 180
gaggaatgat ggaagccttg gggtttctaa aattggaagt gaatggcccc atggtgacgg 240
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gactggagaa gttaggcctc agacatccca agccttctcc tttcattgga aacttgacat 360
tttccgccca gggtttttgg gaaagccaaa tggagctcag aaagctgtat ggacctctgt 420

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<210> 267

<211> 772

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (707)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (736)

<223> n equals a,t,g, or c

<400> 267

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<210> 268

<211> 2482

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (255)

<223> n equals a,t,g, or c

<400> 268

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<211> 2494

<212> DNA

<213> Homo sapiens

<400> 269

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<210> 270

<211> 1827

<212> DNA

<213> Homo sapiens

<400> 270

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<211> 3726

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

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<222> (3687)

<223> n equals a,t,g, or c

<400> 271

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245

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<211> 2662
<212> DNA
<213> Homo sapiens

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<211> 2554

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<213> Homo sapiens

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<221> misc feature

<222> (2537)

<223> n equals a,t,g, or c

<400> 276

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<211> 1806
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<213> Homo sapiens

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<222> (949)
<223> n equals a,t,g, or c

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<210> 279

<211> 2412

<212> DNA

<213> Homo sapiens

<400> 279

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<210> 280

<211> 3572

<212> DNA

<213> Homo sapiens

<400> 280

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```

<210> 281

<211> 2361

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2355)

<223> n equals a,t,g, or c

<400> 281

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gagcggcagc agcctccgtg gcctccagca tccgacaaga agcttcagcc atgcaggccc 180
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```

cacgggagct cgcggtgggc atcgacctgg gcaccaccta ctcgtgcgtg ggcgtgtttc 240
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tggccttcac cgacaccgag cggctggtcg gggacgcggc caagagccag gcggccctga 360
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cgggtgcagtc ggacatgaag cactggccct tccgggtggt gagcgagggc ggcaagccca 480
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cccaggataa ctgaagtctt ttgacttttt gsggggaggg cggttcatcc tcttctgctt 2280
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cccggggggg gncnnggacc c 2361

```

<210> 282

<211> 1587

<212> DNA

<213> Homo sapiens

<400> 282

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tgaagaattt ggagtttttc agggcaattc aaatgacctc attttttgtt ctttttgat 180
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ctttttgtca gcttgatttt tktgtgtgtg taatattcaa gggcagaatg acaggacaga 360
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```

```

tacgttccaa gacccccagt gaacgtctga aaccatggat agtatagaca cctctataca 480
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agagataaac aataactgca aatagaacaa ttataacagt gcactgtaat aaaagtgatg 600
taaatgtgat atgtctgtct cttctctctya aaatatctta ttgtactgta ctcacctgta 660
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gtgggcatta tgggggggtt attggag 1587

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<210> 283

<211> 1973

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1581)

<223> n equals a,t,g, or c

<400> 283

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gaaaatggct ctccataaag gaccagttgc catcatccac agtggaagat tcaaagcagt 120
tggtccttgg tacgtatgag aagcggattt cattcccttg aattctacag agcagtttat 180
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cctttttctg gctaaaacat aatgattatg tttttttctc atttggctct acaagctgct 300
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cagtggccaa aaggtcactc taagtgtttt gtcttgactc cttacttgaa gtccaccacg 420
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ccagtaagca tctgtgacca cacaggcttt ttgactgatg gcttcccgga tctggtttca 540
agggataacc ccgtctgtgt gcatctatgg tcttctctct acagcgagga ctttgcagtg 600
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catctctgtg gttctcctgc ctcacttctt gttctgttgt ttttccggtt tgtcaaaata 840

```

```

tctcctatgt tcttggttc cttttcgctg ccagggtttc agctttcctt tagctcttct 900
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attaaagctg atcatgaaag taaaaaaaaa aaaaaawaa aaaaaaaaaa aaa 1973

```

<210> 284

<211> 1062

<212> DNA

<213> Homo sapiens

<400> 284

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ccaagtctt ctatgacctc agtgccatca gcctggatgg ggagaaggta gatttcaata 180
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tgcgccgctc agatgtggcc tggaaacttg agaagttcct catagggccg gagggagagc 600
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1062

```

<210> 285

<211> 1419

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<400> 285

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agcctggtgg acaggtgaaa gcactgggat ctttctgccc agaaagggga aagttgcaca 120
tttatatcct agaggggaagc gacasagntg cttctccctg tgctgaggta caggagccat 180
gtggctagaa atcctcctca cttcagtgcg gggctttgcc atctactggg tcatctcccg 240
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agccaggagg gacgacagca tccgcccttt caaggtggaa acgtcagatg aggagatcca 360
cgacttacac cagaggatcg ataagttccg tttcacccca cctttggagg acagctgctt 420
ccactatggc ttcaactcca actacctgaa gaaagtcac tcctactggc ggaatgaatt 480
tgactggaag aagcaggtgg agattctcaa cagataccct cacttcaaga ctaagattga 540
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aagcccttgc tgatggtgca cggttgccc ggctctttct acgagtttta taagatcatc 660
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tggtatgacc agaagcatga gcggatgaag gtctatgtgc ccatggcttc tctgccttcc 1380
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```

<210> 286

<211> 1958

<212> DNA

<213> Homo sapiens

<400> 286

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gctggaaata tttctttcaa ttccatctct tagttttcca taggaacatc aagaaatcat 180
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tgtcaccccc ttttatgcag tcaaatgtaa tgatagcaaa gccatcgtga agacccttgc 420
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tgaggatgtg aaacttaaat ttgaagagat caccggcgta atcaaccag cgttggacaa 960
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gtgttgtagc ctgtttttta aataaagtat cttgaaataa acaaaaaaaaa aaaagggggg 1920
ccgccctagg ggttcccaag tttacgtacg ctgcatgg 1958

```

<210> 287

<211> 1230

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1012)

<223> n equals a,t,g, or c

<400> 287

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caccocygga tawtttcttc ccataaatgg aggtgatggg gtctgaaaag gcaactgtaac 360
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cgtgagttgc gtattcaggc tgcttttgcg gcctttggcc agagagctgg ttgaagatgt 960

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ttgtaatcgt tttcagtctc ctgcagggtt ctgtgcccct gtggtggaag anggcacgac 1020
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<210> 288

<211> 1637

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (781)

<223> n equals a,t,g, or c

<400> 288

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<210> 289
<211> 3308
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3255)
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<220>
<221> misc feature
<222> (3269)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3282)
<223> n equals a,t,g, or c

<400> 289
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aaaaaaaaaa                                     3308

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<210> 290

<211> 2239

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2238)

<223> n equals a,t,g, or c

<400> 290

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<210> 291

<211> 1516

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<400> 291

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<210> 292

<211> 2209

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2128)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2160)

<223> n equals a,t,g, or c

<400> 292

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<210> 293

<211> 2071

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2046)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2054)

<223> n equals a,t,g, or c

<400> 293

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<210> 294

<211> 1851

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1849)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1850)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1851)

<223> n equals a,t,g, or c

<400> 294

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```

<210> 295

<211> 2998

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2967)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2971)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2977)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2981)
<223> n equals a,t,g, or c

<400> 295
ntttcagtca ncctgntaag ccaagctgaa ttctcattgc cactggtgaa agaccacgt 60
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ccttactgcc cgggtaagac cctggttgtt ggagcatcct atgtcgcttt ggagtgcgct 180
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tttataagac agttcgtacc aattaaaatt gaacaaattg aagcaggac accaggccga 360
ctcagagtag tagctcagtc caccaatagt gaggaatca ttgaaggaga atataatacg 420
gtgatgctgg caataggaag agatgcttgc acaagaaaaa ttggcttaga aaccgtaggg 480
tgaagataaa tgaaaagact ggaaaaatac cgtcacagat gaagaacaga ccaatgtgcc 540
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```

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cttgtggatt ttcttattct cgttgtcaag ttttctaggg ttgaattttt ttcttttttc 1440
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gcgatcaact ctagccaaat ttgcccctgt gtgtacatg atggatgatt attattttaa 1740
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acaaaacaat gtgaaacatt aaaattaaaa ggcattaata ataaaaaaaa aaaaaaaaaa 2940
aactccgggg gggggccggg acccaanttg ncccatnggg ngcggggtta aaattcac 2998

```

<210> 296

<211> 1282

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1281)

<223> n equals a,t,g, or c

<400> 296

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gaggggcagg cccacagtaa gaagatccag gcctccacca tggccttcaa gcagatggag 180
cagatctctc agttcctgca agcagctgag cgctatggca ttaacaccac tgacatcttc 240
caaactgtgg acctctggga aggaaagaac atggcctgtg tgcagcggac gctgatgaat 300
ctgggtgggc tggcagtagc ccgagatgat gggctcttct ctggggatcc caactggttc 360
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aacgtgatcg ggttacagat gggcaccaac cgcggggcgt ctcaggcagg catgactggc 480
tacgggatgc cacgccagat cctctgatcc caccacaggc cttgcccctg ccctccacg 540
aatggttaat atatatgtag atatatattt tagcagtgc attcccagag agcccacag 600
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tggggcttga ggaagatgag tttgttgatt taaataaaga atttgtcatt tttgaaaaa 1200
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
aaaaaaaaa aaaaaanaa na 1282

```

<210> 297

<211> 678

<212> DNA

<213> Homo sapiens

<400> 297

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cggaattccc gggtcgaccc acgcgtccgg aggaaacaaa ccaccctctg ggggtagttt 60
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ataacattcc aatcactatt gtatatatgt gcatgtattt tttaaattaa agatgtctag 180
ttgcttttta taagaccaag aaggagaaaa tccgacaacc tggaaagatt tttgttttca 240
ctgcttgtat gatgtttccc attcatacac ctataaatct ctaacaagag gccctttgaa 300
ctgccttgtg ttctgtgaga aacaaatatt tacttagagt ggaaggactg attgagaatg 360
ttccaatcca aatgaatgca tcacaactta caatgctgct cattgtttgt agtactatga 420
gattcaaaat tttctaacat atggaaagcc ttttgtcctc caaagatgag tactagggat 480
catgtgttta aaaaaagaaa ggctacgatg actgggcaag aagaaagatg ggaaactgaa 540
taaagcagtt gatcagcatc attggaacat ggggacgagt gacggcagga ggaccacgag 600
gaaataccct caaaactaac ttgtttacaa caaaataaag tattcactac caaaaaaaaa 660
aaaaaacctt ctaaaaaa 678

```

<210> 298

<211> 1682

<212> DNA

<213> Homo sapiens

<400> 298

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ggcgcccccc ccctttgtcc agctgggaca cgaggccgcg ggctcctccc cctccccctcc 60
agcctctcca ccagcccctc cagtcaaccc tcctcgccgt gccccccag agctagagag 120
atggggcccc tgctgggccc gaggggyaga gctgggcgtc acttcgcaag cgtcctgccc 180
tgccggggcg cggggggtgg ctctggggaa gccgggtgcg cccccacgcc tccgctgcca 240
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cccaccccggt ctccctggcc ctatccacac ctccaccccc accccaggat cgccatcttt 600
aggggagggc tgggaggggg tgtaggtgt tttaggggcca ccgagctcaa acacaaggac 660
ccctccccgg cccaccagc ccagcccaa ctgacctcca tgcctaggga aaaactcccc 720
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ta 1682

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<210> 299

<211> 1594

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1550)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1592)

<223> n equals a,t,g, or c

<400> 299

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gagaccagcc cggccaacat ggtgaaaccc catctctact aaaaaataca aaattagctg 120
gaaatcgctt gaacctggga ggtggaggtt ccagtgaacc gagatcgtgg cactgcactc 180
caacctgagc aacagagtga gacaccagct caaaaaaaat tttttaataa taataaaagt 240

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```

cctattattc aactggttat gtacattatg gttgaaaggg aacgttttta tccagtctca 300
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aaattacagt tacattttcc tttckgtgat cttcagcata atttcccaga ggcccccttt 420
tcctccctat aggccatctt attaacagat tttaaaattt atagtaatga caaatgactt 480
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tagattgcat ggtttcatkt ttctcatat tggtttatta attctattta atcaaggaaa 600
ataacttcag attccataaa gtttcagttt atttttagtt tactactagg tgagatagca 660
cattacatac ttttactatc aaatattatt ttagcagctt cccatagtag caaatgat 720
gattccctac tctcatttyt taaagcatat aaatatttat gggcttaaaa aggggggttt 780
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa anaa 1594

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<210> 300

<211> 1102

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1057)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1070)

<223> n equals a,t,g, or c

<400> 300

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ggaccagggc cgtctagtgg acctggtcaa cgccagcttc ggcaagaagc tcagggacga 180
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cgccgccatt ctgacctagg agcccgctcct ggggggcacc ccgtacctgg acaaatttgt 300
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caaacacagt gatggcagct tctccaacaa gcagtggatc ttcttctggt ttggcctggc 480
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caagccagct tctgacctag gcagctgacc ttcacctagg aactacagg ccctggaatg 600
gccaggggtg accaaaagcc atgccagctg ggcagatgacc caggcagcca gccacaggct 660

```

```

gaagggggct tgttggtga gtgatctgca gaggagaaag cagccccagc tctgcccaga 720
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aaacaaaatt tttttttttt tt 1102

```

```

<210> 301
<211> 1089
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1043)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1073)
<223> n equals a,t,g, or c

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<400> 301
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gaaatttccc aagggcatcc ttttaaggca gctgtctctg tacccttgga ggccatcagt 120
aaatgtttcc aatctatagc agaggtagtt atggaggagg tgatggtgga tataatggat 180
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<210> 302

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<211> 1284

<212> DNA

<213> Homo sapiens

<400> 302

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<210> 303

<211> 1109

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (638)

<223> n equals a,t,g, or c

<400> 303

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<210> 304

<211> 588

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (585)

<223> n equals a,t,g, or c

<400> 304

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<210> 305

<211> 2019

<212> DNA

<213> Homo sapiens

<220>

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<220>
<221> misc feature
<222> (1990)
<223> n equals a,t,g, or c

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<222> (1995)
<223> n equals a,t,g, or c

<220>
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<222> (2001)
<223> n equals a,t,g, or c

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<210> 306

<211> 3317

<212> DNA

<213> Homo sapiens

<400> 306

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<210> 307

<211> 1283

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

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<220>

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<220>

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<220>

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<222> (1267)

<223> n equals a,t,g, or c

<400> 307

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<210> 308

<211> 4253

<212> DNA

<213> Homo sapiens

<400> 308

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ccttcattaa ctggaagtga aatgggtaaa aatatttata ctgttagaat aggctgcatc 4080
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<210> 309

<211> 2183

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (794)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1091)

<223> n equals a,t,g, or c

<400> 309

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ccgtcacttt tgggtgtcatc accagcatca tcatttgggc cctggccatc ttggcttcca 60
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cactacccaa agacaaaatg tgcccaactgt gtgcttttga gtgtattttc ttttagtttg 2040
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tcaaagcata aaaaaaaaaa aaa 2183

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<210> 310

<211> 3092

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3086)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3089)

<223> n equals a,t,g, or c

<400> 310

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gttttaaatgt tagcgttggt aatactacct gcttttggt agaattgtaa gatgagagct 360
attgttcaca taactcaaca gttagtgtt gtcaagtggg gaacacgaca gacttctgtt 420
ccgtttccac ggccactcca gtgccaacag ccaattctac agctaaacct acagttcagc 480
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ggataccatt agtgtgtata acagattatt gttcatactt gtaaagcayc ttatgtcatt 1320

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<210> 311

<211> 1296

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

<400> 311

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tgaccagcac tgaagtctat ggggccttca cctgtcccat ccagaacatc agcttctcct 180
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cctactgtct ctacagcgac tgccccgagg accgcaagtt cgtgaacttc atcctaagc 420
cgcagctgga gcggcgctcg ggctacaagc tcttcctgga cgaccgcgac ctccctgccg 480
gcgctgagcc ctccgcgcgac ctcttggtga acctgagccg ctgccgacgc ctcatcgctg 540

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tgccttcgga cgccttcctg agccgggcct ggtgcagcca cagcttcgga gagggcctgt 600
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ccagcagccc tgggaaaagg ctgtggcctc agggcgctc ccagtgccag aaaataaagt 1260
ccttttgat tctgaaaaa aaaaaaaaa aaaaaa 1296

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<210> 312

<211> 1348

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1306)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1313)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1316)

<223> n equals a,t,g, or c

<400> 312

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ggcctgttca acccaccat gccccaggaa caacggcagc tgcccacaat accaccgcga 60
cagctgcacc tgctccacg gttcctgggc ccaccttgcc acctcagcca tcgtcagtca 120
agactggaat ttatcagggt ctaaacggaa gcagactctg tataaaagca gagatgggga 180
tacagctgat tgttcaagac aaggagtcgg ttttttcacc tcggagatac ttcaacatcg 240
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atgcggtggt gatgttcag acagcagtcg ggcattcctt caagtgcgtg agtgaacaga 480
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attttgaaga tgaccacttt ggaaatgtgg atgagtgtc gtctgactac acaattgtgc 600
ttcctgtgat tggggccatc gtggttggtc tctgccttat gggatgggt gtctataaaa 660

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tccgcctaag gtgtcaatca tctggatacc agagaatcta attggtgccc ggggggaatg 720
aaaataatgg aatttagaga actctttcat cccttccagg atggatgttg ggaaattccc 780
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tccaagtgga atctcccggc ttcagctt 1348
```

<210> 313

<211> 413

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (399)

<223> n equals a,t,g, or c

<400> 313

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tggtgtgtg cggggcctgc aaggagaact attgtcttat gatcacgttt gccatctttc 120
tgtctcttat catgttggtg gaggtggccg cagccattgc tggctatgtg tttagagata 180
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actacacaga ttgggagaaa atcccttcca tgctgaagaa ccgagtcctc gactcctgct 360
gcattaatgt tactgtgggc ttgggttaat tcaacgaana aagcgatcca taa 413
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<210> 314

<211> 1743

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1731)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1738)

<223> n equals a,t,g, or c

<400> 314

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taatcaaagc tcaggaggag agctgcattc cactgtttca cagatgctgt gagggtgaca 60
aagatgcagg gcacccactg gaaacacaga cggcactctg cgaaagagga aggggcgcca 120
ggagcttggg tgagcaaggt tggaggtgat tctgcccctc tcccaggct ttctgtatta 180
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gaaaactgaa gcttcaagaa cagacttgcc taacaacagg aaacttgat gtctcgaagt 240
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tcattggttt actgaagttg ctagaagttt acagaaaagg aagtgcagga acatttcaca 360
aatctacaat ctgtgagtat cacatcctgt atagctgtaa acactggaat aaggaaagggc 420
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aacygcactg ctgactctgt aggcagagg agagaataaa gccacgttcc aactgcctaa 1680
aaaaaaaaa aaaaaactcg agggggggcc cggaacccaa ttcggagtgt ntcccgtnca 1740
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<210> 315

<211> 2044

<212> DNA

<213> Homo sapiens

<400> 315

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atggcgctat ccgggtcgac cccggccccg tgcggggagg aggatgagt cctggactac 180
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2044

<210> 316

<211> 1750

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (784)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1491)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1671)

<223> n equals a,t,g, or c

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<222> (1704)

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<221> misc feature

<222> (1732)

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<222> (1734)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1746)

<223> n equals a,t,g, or c

<400> 316

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<210> 317

<211> 2383

<212> DNA

<213> Homo sapiens

<400> 317

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<210> 318

<211> 1061

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<400> 318

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cancagttag atgcatcaga aaggagatcc gggatttgta tgtaacatc cagcctgttc 180
aagaacctaa agaccaagca ttgggcaatg gaaatggaat aataattatt gctgagacct 240
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atgatacctc attgatatat tgcactatct cataaatact ataaaataat gactaggaag 660
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<210> 319

<211> 2372

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1048)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1289)

<223> n equals a,t,g, or c

<400> 319

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<210> 320

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (424)

<223> n equals a,t,g, or c

<400> 320

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tcttcttagt agctattacc ttcttattat ttgatctaga aattgccctc cttttacccc 240
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aagnggatta caattcac                                     438

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<210> 321

<211> 2895

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1255)

<223> n equals a,t,g, or c

<400> 321

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<210> 322

<211> 1175

<212> DNA

<213> Homo sapiens

<400> 322

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gattttttaca ttcttagcag tggattgata ttgctgcaga ccacaaacag tgtgtttaat 300
aaaaccctgc taaagcaggt aataccgcag actctcctgt cctggcaaag agtccgtgtg 360
gccaatatga tggcagatag tggcaagagg tgggcagaca tcttttcaaa atacaactct 420
ggcacctata acaatcaata catggttctg gacctgaaga aagtaaagct gaaccacagt 480
cttgacaaaag gcactctgta cattgtggag caaatccta catatgtaga atattctgaa 540
caactgatg ttctacggaa aggatattgg ccctcctaca atgttccttt ccatgaaaaa 600
atctacaact ggagtggcta tccactgtta gttcagaagc tgggcttgga ctactcttat 660
gatttagctc cacgagccaa aattttccgg cgtgaccaag ggaaagtgac tgatacggca 720
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agtgttccca cagtacaagg tggcctccct gtttttcgct gggaccgttt caacaaaact 960
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<210> 323

<211> 3578

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3552)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3557)

<223> n equals a,t,g, or c

<400> 323

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tgcagccaaa aatcagcaaa tcactcatgc aaacaatacg gtgtctaact tcaaaagatt 180
tcatggccga gcattcaayg accccttcat tcaaaaggag aaggaaaact tgagttacga 240
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<210> 324

<211> 1715

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<400> 324

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gtgcctccag tgccctggag gctggaggtt cctcaggctt ggaggatgtg ctgccccctc 360
tgacgcaggc cgacgagctg cacaggggtg atgagcaagg caagcgggag ggcttccagc 420
tgctgtctca caacaagctg gtgtatggaa gccggcagga ctttctcttg cgcttgggcc 480

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gagcctacag tgacatgtgt gagctcactg aggaggtgag cgagaagaag tcatatgccc 540
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acctgtggta tgcggtgctt tgtggtcagc tggctgagca tgagagcatc cagaggcgca 660
tccagagtgg ctttagcttc aaggagcatg tggacaaagc cattgctctc cagccagaaa 720
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<210> 325

<211> 1688

<212> DNA

<213> Homo sapiens

<400> 325

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tgcggaccar ggagaccccc gcgccccccc ggtgtgaggc ggcttcacag ggccgggtgg 120
gctggcgagc cgacgcggcg cgggaggagg ctgtgaggag tgtgtggaac aggaccggg 180
acagaggaa ccatggtccc cagaacctga gcaccttttg cctgttgctg ctataacctc 240
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acctgatga tccacaagcc caggagaaat tccaggatct ggtgtgtgct tatgaggttc 420
tgtcagatag tgagaaacgg aaacagtacg atacttatgg tgaagaagga ttaaaagatg 480
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gatattgaga gtgaataaaa ttggactttg ttttaataaa gtgaataagc gatattttat 1320
atctgcaagg tttttttgtg tgtgtttttg tttttatttt caatatgcaa gttaggctta 1380

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atTTTTtttat ctaatgatca tcatgaaatg aataagaggg cttaagaatt tgtccatttg 1440
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gtctggtgct gccgcctgag tttcaagaat taaagctgca agaggactcc aggagcaaaa 1560
gaaacacaaat atagaggggtt ggagttgtta gcaatttcat tcaaaatgcc aactggagaa 1620
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aaaaaaaaa 1688
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<210> 326

<211> 1632

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1540)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1560)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1566)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1595)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1615)

<223> n equals a,t,g, or c

<400> 326

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tcggcgcggc ctgagcgccc ggcccgaccc cggccatggg gtgctgctac agcagcgaga 180
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<210> 327

<211> 2222

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2212)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2214)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2215)

<223> n equals a,t,g, or c

<400> 327

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caccacaca ccctccttca tgctcatcct aagaggagtg aagaaagaag acaagacttt 180
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```

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tatattcctt catccctctt gtttccagg ttttgaggg aaaaaaagtc tggaattata 2160
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gg 2222

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<210> 328

<211> 2167

<212> DNA

<213> Homo sapiens

<400> 328

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ggtgacgaaa gccacagagg aggacaaaag caagaactac gaggaggcgc tgcggctgta 180
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<210> 329

<211> 2373

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<400> 329

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ggaaaagggg agacaacagt acagacacca cccaaggaga ccctttgtcg atccaccact 180
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<210> 330

<211> 1369

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1323)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1329)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1343)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1358)

<223> n equals a,t,g, or c

<400> 330

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<210> 331

<211> 2864

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2850)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2858)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2860)

<223> n equals a,t,g, or c

<400> 331

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<210> 332

<211> 1985

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1985)

<223> n equals a,t,g, or c

<400> 332

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<210> 333

<211> 3087

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (166)

<223> n equals a,t,g, or c

<400> 333

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<210> 334

<211> 898

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (849)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (886)

<223> n equals a,t,g, or c

<400> 334

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<210> 335

<211> 944

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (908)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (936)
<223> n equals a,t,g, or c

<400> 335
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<210> 336
<211> 1607
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1162)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1449)

<223> n equals a,t,g, or c

<400> 336

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<210> 337

<211> 3156

<212> DNA

<213> Homo sapiens

<400> 337

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<210> 338

<211> 1015

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (958)

<223> n equals a,t,g, or c

<400> 338

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<210> 339

<211> 2088

<212> DNA

<213> Homo sapiens

<400> 339

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<210> 340

<211> 3124

<212> DNA

<213> Homo sapiens

<400> 340

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<210> 341

<211> 245

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<400> 341

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ccagggtgctg aagggcctga ccatcactca ttaagaacag aggaggctgc ctgttactcc 180
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<210> 342

<211> 5668

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (2482)

<223> n equals a,t,g, or c

<400> 342

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cggggggaat ctccgcaggg ttggagtttt ggcgagagtt tgtggaagat ggccgcctgt 180
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<210> 343

<211> 814

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (659)

<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (660)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (814)
 <223> n equals a,t,g, or c

<400> 343
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 gtgttttata taagtatacc acattataag tctactggag atccaaaggg atttgcgttt 600
 gtggaatttg aaacaaaaga acaagcagca aaagcaattg aggtaagtcc agatcctann 660
 aaaaaaaaaa gaaagaaaag aaaacaagta ttaaaatagt aacttttgca atcatttcag 720
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<210> 344
 <211> 901
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (15)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (83)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (764)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (852)
 <223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (858)

<223> n equals a,t,g, or c

<400> 344

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acatcagatg cggttttttt gctcccttat gttcttcgga tatggttatg gcattttag 180
gcttgagggt aaagaactga agataactgg tgctggatag aggagcctta tttttatta 240
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aactgatgtc cccttcttcc tggatgaatg agcagataaa tattgatgtc agcatccttg 360
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ggttgtggtc tgaagctttg aagcgctact tagcatctcc tttcttccat ggagctctca 480
cgattcaaac atgacagatt tggtaaaatg ctggttaggt tgagtcttcc ttgccccac 540
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gatataggac agtactgtat catacctctg tgaatgtaaa atatcttgac ctgctttatg 840
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t
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<210> 345

<211> 2588

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2551)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2564)

<223> n equals a,t,g, or c

<400> 345

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aaatctgact agtgctgtca atagtctaaa ttttattatc aaagaactta caaaaagaca 180
caacttactt agaaatgaag tacagggtcg tgatgatgcc ttagaaagac gtatcaatga 240
atatgcctta gaaatggaag atggcctcaa taagacaatg actattatwa ataatgctat 300
tgatttcatt caagataact atgccctaaa agagacttta agtactatta aggataatag 360
tgagatccat cataaatgta cctccgatat ggaaactatt ttgacattta ttcctcagtt 420
ccaccgtctg aatgattcta ttcagacttt ggtcaatgac aatcagagat ataactttgt 480
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cttccaaaag atgtatcaaa tgttcaatga aaccacttcc caagtgagaa aataccagca 600
aaatatgagt catttggaag aaaaactact cttaactacc aagatttcca aaaattttga 660
gactcggttg caagacattg agtctaaagt taccagacg ctcatacctt attatatttc 720
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<210> 346

<211> 3770

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<400> 346

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<210> 347

<211> 2358

<212> DNA

<213> Homo sapiens

<400> 347

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<210> 348

<211> 2044

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<400> 348

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tgta

2044

<210> 349

<211> 793

<212> DNA

<213> Homo sapiens

<400> 349

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cctgtgcaca agttggtacc aacaaagagc tctgctgcct cgtctatacc tcttggcaga 180
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aaaaaaaaaa aaa                                     793
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<210> 350

<211> 1058

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1033)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1034)

<223> n equals a,t,g, or c

<400> 350

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aaaaaaaaa tcnnnggggg gcccggtacc caattggc 1058
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<210> 351

<211> 1348

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1294)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1318)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1329)

<223> n equals a,t,g, or c

<400> 351

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tgctcacagt catcaattat agacccca acatgcgccc tgaagacaga atgttccata 180
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<210> 352

<211> 3170

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3163)

<223> n equals a,t,g, or c

<400> 352

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<210> 353

<211> 3013

<212> DNA

<213> Homo sapiens

<400> 353

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<210> 354

<211> 1829

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1338)

<223> n equals a,t,g, or c

<220>
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<222> (1777)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1796)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1798)
<223> n equals a,t,g, or c

<220>
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<222> (1824)
<223> n equals a,t,g, or c

<400> 354
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<210> 355

<211> 1642

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (990)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1009)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1619)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1641)

<223> n equals a,t,g, or c

<400> 355

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<210> 356

<211> 2020

<212> DNA

<213> Homo sapiens

<400> 356

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<210> 357

<211> 1217

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1141)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1149)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1157)

<223> n equals a,t,g, or c

<400> 357

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<210> 358

<211> 1963

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<400> 358

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<210> 359

<211> 1387

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1313)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1321)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1348)

<223> n equals a,t,g, or c

<400> 359

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ctgggacatt gtttgacagc gcataacctg gggaaaatac atgaattgtg gccaaacctg 900
cattgcaccc gactatattc tctgtgaagc atccctccaa aatcaaattg tatggaagat 960
taaggaaaca gtgaaggaaat tttatggaga aaatataaaa gagtctcctg attatgaaag 1020
gatcatcaat ctctgtcatt ttaagaggat actaagtttg cttgaaggac aaaagatagc 1080
ttttgggtgg gagactgatg aggccacacg ctacatagcc ccaacagtac ttaccgatgt 1140
tgatcctaaa accaagggtga tgcaagaaga aatttttgga ccaattcttc caatagtgcc 1200
tgtgaaaaat gtagatgagg ccataaatgt cataaatgaa cgtgaaaagc ctctgggtctt 1260
taatgtattt tcgcataacc ataagctcat ccaaacgggt gattgatgag acnccattgg 1320
ngtgtcacag gcatgacgtc ttatgcantc acgggtcacc ttcccctttg gaggatgggt 1380
ccatggg
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<210> 360

<211> 388

<212> DNA

<213> Homo sapiens

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aaaaatagaa aaaaataaac caggcgtggt ggcacggcct gtaatcctag ccacttggga 180
ggctgaggca ggagaatcgc ctgaacccag gaggcggagg ttgcagtgag ccaagatcgc 240
accactgcac tccagcctgg gtgatggagc gagactctat ctcaaaaaaa aaattgtgca 300
tgtaaaacat gaaattataa cctgtgctct ttggatacct aatgcgacat ttaagntgna 360
tttgacagtn natagnattt tggatcta 388
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<212> DNA

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aggagaagct gtgtacgct gccctgggac ttcnagnagg agatggccac cgccgcatcc 180
tcctcttctc tggagaagag ctacganctg cccgatggcc aggtcatcac cattngcaat 240
gagcggttcc ggtgtccggn aggcgctgtt ccagccttnc cttcctggng t 291

<210> 362
<211> 412
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (385)
<223> n equals a,t,g, or c

<400> 362
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ctaagagcat cgagggggcg ccgagaggca aggggcgggg acgggcgggtg gctcgcctcg 120
cggcggaccg cccgcccgcct cccaagatcc aactacgagc tttttaactg cagcaacttt 180
aatatacgct attggagctg gaattaccgc ggctgctggc accagacttg ccctccaatg 240
gatcctcggt aaaggattta aagtggactc attccaatta cagggcctcg aaagagtcct 300
gtattgttat ttttcgtcac tacctccccg ggctcgggagt gggtaatttg cgcgcctgcn 360
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<210> 363

<211> 351

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (332)

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<400> 363

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agggcaaaaa acgacacagt agtagcagtt cccaaagtag cgaaatcagt actaagagca 180
aggacaaagc aacaataatt cagatacctg tgcagaatth cgaataaaat atgttggtgc 240
cattgagaaa ctgaaactct ccgagggaaa agncttgaa gggccattga gacctgataa 300

attntggnag acgttgcccc agcaagggtg gnaagtttgc cttttgtttc c

351

<210> 364

<211> 329

<212> DNA

<213> Homo sapiens

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tgatcgaatt gcacagctnc atttgcnac ggatttttta tccagaaata gaagaagttc 180
aagccttgga tgacaccgaa agggtttnca ggaggttttg gttccactgg aaagaattaa 240
aatttatgcc aagaacagaa ancaagaagt catacctttt tcttaaaaaa aaaaaaangg 300
tttttnccttc caagngtttt gggggtttt 329

<210> 365
<211> 663
<212> DNA
<213> Homo sapiens

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gggacttgag cgagccagtt gccggattat tctatttccc ctccctctct cccgcccgt 120

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atctcttttc acccttctcc caccctcgct cgcgtagcca tggcggagcc gtcggcgggc 180
actcagtcce attccatctc ctcgtcgctc ttcggagccg agccgtccgc gcccgggcgc 240
ggcgggagcc caggagcctg ccccgccctg gggacgaaga gctgcagctc ctctgtgctg 300
gtgcacgatc tgattttctg gagagatgtg aagaagactg ggtttgtctt tggcaccacg 360
ctgatcatgc tgctttccct ggcagctttc agtgtcatca gtgtgggttc ttacctcatc 420
ctggctcttc tctctgtcac catcagcttc aggatctaca agtccgtcat ccaagctgta 480
cagaagtcag aanaagggca tccattcnaa gcctacctgg acttnacatt actctgtcct 540
cagaactttc cataattact gaatgctgcc atggtgcaca tcaacagggc ctgaaaatca 600
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gnt 663

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<210> 366

<211> 238

<212> DNA

<213> Homo sapiens

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<222> (67)

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<220>

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<400> 366

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tcctgtntgc cccgcgccaa agtgcccaga gccatgtcca ccccgaagt gccctgagcc 120
ctgccacca tcaaagtgtc cacagtctgc cccacctcag cagtgccagc agaaatgtcc 180
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<210> 367

<211> 291

<212> DNA

<213> Homo sapiens

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cgctcctac ctgctggctg ccctaggggg caactcctcc ccagcgcca aggacatcaa 120
gaagatcttg ganagcgtgg gtatcgaggc ggacgacgac cggctcaaca aggttatcag 180
tgagctgaat ggaaaaaaca ttgaagacgt cattgcccag ggtattingca agcttgccag 240
tgtaccngct ggttgggggc tgtaaccgtc tctgntggnn ccaagcctct g 291

<210> 368
<211> 400
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<222> (87)
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<222> (345)
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<222> (355)
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<222> (361)
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<220>
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<220>
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<222> (372)
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<220>
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<222> (373)
<223> n equals a,t,g, or c

<220>
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<222> (388)
<223> n equals a,t,g, or c

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gacatctcnc ccgtnttgaa ggaccccgnc tnccttcgcg ccgncatcgg cctcctggcg 180
cgacanctga aggcgacca cgggggcccgc atcgactaca tcgcaggcct agactnccgg 240
agagttcctc ttttggccct ccctggtcca ggagctttgg actgggctgc gtggttaatc 300
cgnaancggt gngaagntgn cnaggnccca attctntggg nttantgatt tcctnggagt 360
naggggaagn tnnaggttga ggatttanga aaaaggcctt 400

<210> 369
<211> 428
<212> DNA
<213> Homo sapiens

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<222> (293)
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342

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<400> 369

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atgatgtggc tttgaagaac ttgccaat actttcttca ccaatctcat gaggagaggg 180
aacatgctga gaaactgatg aagctgcaga accacgaggt ggccgaatct tcttnaggat 240
atcaagaaac cagactgtga tgactgggag aacggctgaa tgcaatggaa tgngcattac 300
atthttggnaa aaaatgggga attaactact tctgggaact gnacaaactg ggcaacttgc 360
aaaaatggcc cccantttgg gggactttan ttgagaccca attacctgat agccaggtna 420
aaagncct                                         428
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<210> 370

<211> 433

<212> DNA

<213> Homo sapiens

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<222> (31)

<223> n equals a,t,g, or c

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<222> (44)

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<222> (229)

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<222> (385)
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agcacaantc ctgaagggaac ccaaagtggc tgcttctgtt ttgaatccct atgtgaagcg 180
ttccattaaa gtgaaaagcc tanntgacat cacagcaana gagagggtnt ctcccctaca 240
ctaccaacct gntcantttg cttgctgaaa atggtnngatt aagccgatac ccaaggagtn 300
gtttntgnnt tttctaacat ggatgagtggt ccatcgcgga gaggtacttn cacagtgacc 360
tntggaatct cctttagaag aagcnacact cctctgaatt agaaatgtcc tcaaggcttc 420
ctgaggcaag gca 433

<210> 371
<211> 538
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (511)
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<220>
<221> misc feature
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<222> (529)

<223> n equals a,t,g, or c

<400> 371

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atggccatcc ccttatgagc gggcgagtg attataggct ttcgctctaa gattaaaaat 180
gccctagccc acttcttacc acaaggcaca cctacacccc ttatcccat actagttatt 240
atcgaaacca tcagcctact cattcaacca atagccctgg ccgtacgcct aaccgctaac 300
attactgcag gccacctact catgcaccta attggaagcg ccaccctagc aatatcaacc 360
attaaccttc cctctacact tatcatcttc acaattctaa ttctactgac tatcctagaa 420
atcgctgtcg ccttaatcca agcctacgtt ttcacacttc tagttaagcc tctacctgca 480
cgacaacaca taaaaaaaaa aaaaaaaaaa ntnaaggggg gggcggggtnc ccaatccc 538
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<210> 372

<211> 405

<212> DNA

<213> Homo sapiens

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<220>

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<222> (9)

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<222> (11)

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<220>
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<222> (362)
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cgcncatagaa ctagtggntc ccccgggctg caggaattcg gcacgaggtc gccaatgag 120
tgaagcccaa gtacaaagga cggngcacca tcaaccgctc caaggccagc acaaaccag 180
ntcagtgca gggagcanga ggcaaaaca tgagggaccg ggccaccatc cggcgctga 240
ntatgtatag gcaaaaggag cgcaggnaca gtcgtggtta antaattaaa cccctgcaat 300
atcaatcaac ggtggcttct ggacagtggt caagagtaga gccaatatt aaatgggtt 360
gnaacacacg tgtgattaag cagtcacatc tacaaaaatt tcaag 405

<210> 373
<211> 460
<212> DNA
<213> Homo sapiens

<400> 373
gcaagaacgc cctggagaag tacggacccc tgaagcccct gccacagacc ccgcacctgg 60
aggaggactt gaaggaggtg ctgcgttctg aggctggcat cgaactcatc atcaggagacg 120
acatcaggcc cgagaagcag aagaggaagc ctgggctgctg gcggagcccc atcaagaaaag 180
tccggaagtc tctggctctt gacattgtgg atgaggatgt gaagctgatg atgtccacac 240
tgcccaagtc tctatccttg ccgacaactg ccccttcaaa ctcttcacagc ctcacctgt 300
caggtatcaa agaagacaac agcttctccc aagcccacgt caggcctggc ctcacatcag 360
accctgctta ggatggggga tgtggcaggg gtgctcctgt gctcaccctc tcttggtgca 420
tttttttggga agaataaaat tgcctctctc tttaaaaaaa 460

<210> 374
<211> 393
<212> DNA
<213> Homo sapiens

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<222> (377)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

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<400> 374

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cttcctcacc tccaccttct ccctgccttc tctcttctct cgtctgagcc cccaggcctt 180
ttccactttg agggaggtgc ttcgaagaat gttgccaca cctaagtgtt agaagcctat 240
gtccgttcat ccctgagagg tctgaaagaa taaaaataaa ttctaaaaaa aaaaaaaaaa 300
aactcgaggg ggggccccgg acccaatttg ccctataggg agncgattac aattcactgc 360
cgcgttttac aacgtnnnga ctgaaaaaac ccn 393
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<210> 375

<211> 587

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (30)

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<220>

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<222> (75)

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<220>
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<222> (209)
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<222> (417)
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<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

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<222> (439)
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<220>
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<222> (461)
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<220>
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<222> (464)
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<222> (502)
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<221> misc feature
<222> (529)
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<220>
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<222> (554)
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<220>
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<222> (576)

<223> n equals a,t,g, or c

<400> 375

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acttctccta tctcncccag tcctagctgc tggcatcact atactactaa cagaccgnaa 120
cctcaacacc acctnctcg accccgccgg aggaggagac cccattctat accaacacct 180
attctgattt ttcggacacc ctgaaggnaa tattcttctc ctaccaggct tcggaataat 240
ctcccatatt gtaacttact actccgaaa aaaagaacca ttggatata taggtatgga 300
ctgagctatg atatcaattg gnttcctagg gnttatcgtg agagcacacc atatatttac 360
agtaggaata gacgnagaca cangagcata ttccacctgc gntaccataa tcatngntat 420
cccaaacgg ggncaaagna attaagctgg actaggcaca ntncaaggg aagcaataat 480
gaaaanggac tgctgnaaga gnttctgagc cctaaggaat caactttcnt ttcaaccgga 540
aggggggccg aatngggaat gggattaacc aaactnaata attggaa 587
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<210> 376

<211> 461

<212> DNA

<213> Homo sapiens

<220>

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<222> (41)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

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<222> (66)

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<222> (74)

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<220>

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<222> (209)

<223> n equals a,t,g, or c

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<220>
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<220>
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<400> 376
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ctagantag taggntcccc ggccctgcagg aattcggcac gaggtgaaaa ctaccacctaa 120
aagccaaaat gggaaaggaa aagactcata tcaacattgt cgtcattgga cacgtagatt 180
cgggcaagtc caccactact ggccatctna cctataantn cgggtggcatc gacaaaagan 240
ccattgaaaa atttgagaag gaggtgctg agatgggaaa gggctccttc aagtatgcct 300
gggtcttgga taantgaaa gctgagcgtg ancgtggtat caccattgat atctccttgt 360
ggaaatttga gaccagcaag tactatgtga ctatcattga tgccccagga cacagagact 420
ttatcaaaan catgattaca gggacatctc aggctgactg t 461

<210> 377
<211> 517
<212> DNA
<213> Homo sapiens

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<220>
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<222> (484)
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<222> (488)
<223> n equals a,t,g, or c

<220>
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<222> (508)
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<220>
<221> misc feature
<222> (515)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (517)
<223> n equals a,t,g, or c

<400> 377
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atcagacttt gttttaacaa ttgaaagccc accgaagggtg cactaaagca agcccttgat 120
ttattttttg agtcaaactt cttgtggtgt tttgcgggga tagtgcttat tgaattttgg 180
gtttccttga aataatcact gtttgtttcc cctttgtagc tgggaacttc tggggttaga 240
cgttgctgct atcttcagtt ncacagaccc aaccagttac gatgggtttg gaccatttat 300
gccgggattc gacatcattc cctataatga tctgcccgca ctggaggtat ttcactagcg 360
tcatagtgtc cagctcattg ggaatagaaa ttaaagctgt tgaatatatg aattaaaagt 420
cattatatga cagtaatgca aatttatctc acttaaggta accacgattc agacttggtc 480
ttantacnat caattagttt ccaaccngga gaaantn 517

<210> 378
<211> 302
<212> DNA
<213> Homo sapiens

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<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (137)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (167)
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<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (242)
<223> n equals a,t,g, or c

<220>
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<222> (245)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (296)
<223> n equals a,t,g, or c

<400> 378
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nagtggatcc cccgggctgc aggaattcgg cacgagcgca ggccctgaaa tgcagactgg 120
ccgaaataac ttgtcntcc ggcggaaccc agctgaccct cagcgcnttc cctccaaccc 180
ttcccaccgt ntccagtgtg cagcaggctn cgagcaaagt gaacacaacg tgtgccaaga 240
cntanacgag tgcactgcag ggacgcacaa ctgtagagca gaccaagtgt gcntcnattt 300
ac 302

<210> 379
<211> 491
<212> DNA
<213> Homo sapiens

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<220>
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<222> (10)
<223> n equals a,t,g, or c

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<222> (15)
<223> n equals a,t,g, or c

<220>
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<222> (105)
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<220>
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<222> (115)
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<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (206)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (214)
<223> n equals a,t,g, or c

<220>
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<222> (233)
<223> n equals a,t,g, or c

<220>
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<222> (284)
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<220>
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<222> (288)
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<220>
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<222> (313)
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<220>
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<222> (318)
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<220>
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<222> (426)
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<220>
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<222> (433)
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<220>
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<222> (458)

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<220>

<221> misc feature

<222> (461)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (464)

<223> n equals a,t,g, or c

<400> 379

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tccgatttcc tctccgcttg caacctccgg gaccatcttc tcggncatct cctgnttctg 120
ggacctgnca ccaccgtttt tgtggttagc tccttcttgc caaccaacca tgagctccca 180
gattcgtcag aattattcca ccgacntgga ggcnacgctc aacagcctgg tcnatttgta 240
cctgcatgcc tcctacacct acctctctct gggttcttat ttcnaccncg atgatttggc 300
tctggaaagc gtnagccnct tcttccaaga aactggccga ggagancgag anggctacga 360
acgtctcctg aatatgcaaa accagcgtgg gcggccgcgc tctcttccag gaagtcaaca 420
agcccnctta aanataattg gggttaaaac cccaaaancc ntgnaaactt gccattgccc 480
tgaaaataaaa a 491
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<210> 380

<211> 270

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)
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<220>
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<221> misc feature
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<220>
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<222> (108)
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<220>
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<222> (119)
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<220>
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<220>
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<222> (182)
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<220>
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<222> (199)
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<220>
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<220>
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<220>
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<222> (214)

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<220>

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<222> (222)

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<220>

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<222> (230)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (233)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<400> 380

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ggnccacttg gaaaaccggt tggtatncca tgaagaaaac cactatnnag ataatccnt 120
tcaacaggct cacaattnga gaaggacagc aacaccacct agggggagcc aaacaggctg 180
gngacgttta aaagaccgnt tncaaangag gttnacttat tntaaagggn ctnatatatg 240
aagcagagga ggtgataatt agttntcct 270
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<210> 381

<211> 160

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

360

<222> (139)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (141)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (154)

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<221> misc feature

<222> (158)

<223> n equals a,t,g, or c

<400> 381

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accaaataatg aagtgaagtgt ctatgctctt aaggacactt tgacaagcag accagctcag 120
ggagttgtca ccactntgna naatgtcagc ccancaanaa 160
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<210> 382

<211> 617

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (501)

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<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<400> 382

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tcaagaagga ctggaaggac tgagcccagc cagaggcggt cagggcagac tgacggacgg 120
acgacggaca ggcggatgtg tccccccag cccctcccct ccccatacca aagtgtgtac 180
aggccctccg tgcccctccc accctggtcc gcctccctgg cctggctcaa ccgagtgcct 240
ccgaccccc tccctcagccc tccccacccc acaggcccag cctcctcggt ctccctgtctc 300
gttgtgtgctt ctgcctgtgc tgtgggggag agaggccgca gccaggcctc tgctgccttt 360
ctgtgcccc caggttctat ctccccgtca cacccgaggc ctggcttcag gagggagcgg 420
agcagcattc tccaggcccc cgttggttgc cctggacgtg tgcgtctgtg ttcgggtgga 480
ctgggggtgtg ggatgcacgg nctgtggggg ccggccgtct cagcccgtgt cctgcagccc 540
ttgcgtgtcg gccgctaaca tntgtacat ggggtgacgg gggctatagc ttactctggt 600
gatacatggg ctccgcc 617
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<210> 383
<211> 307
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<400> 383
gcggagcgtg cgggccctgc tctgcaccct gcgcgcgggc ccgttaccgc ccgcgccttg 60
cccgccgagg ccctggcagc tgggggtggg cgcgcgtccgt acgctgcgca ctggaccgcg 120
tctgctctcg gtgcgtaaat tcacaganaa acacgaatgg gttaacaaca gaaaatggca 180
ttggaacagt gggaatccag caattttgca caggaagcgt tgggaaattt tgtttattgt 240
tatctccctg aaatttggga caaaatttga aacaaacaaa ttaattttgg gttgcttttg 300
gagggtt 307

<210> 384
<211> 424
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (290)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
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<222> (407)

<223> n equals a,t,g, or c

<400> 384

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gtggagtccc tgtgctagga tttttcatca tagctgtgct gatgagcgct caggaatcat 120
gggctatcaa agaagaacat gtgatcatcc aggccgagtt ctatctgaat cctgaccaat 180
caggcgagtt tatgtttgac tttgatggtg atgagatttt ccatgtggat atggcaaaga 240
aggagacggt ctggcggcctt gaagaatttg gacgatttgc cagctttgan gctcaagggtg 300
cattggccaa catagctgtg gacaaagcca acctggaaat catgacaaag cgctccaact 360
atactccgat caccaatgta cctnnagagg tnanctgtgc tcacgancag ccctgtggaa 420
ctga 424
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<210> 385

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<400> 385

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agccgtgggtc caggagacgg agggaaacaga gaccactgga aggagtcaga taggaaagat 120
ggcaaaaagg atcaagactc cagatctgca cctgagccaa agaaacctga ggaaaatcca 180
gcttctaagt tcagttctgc aagcaagtat gctgctctct ctgttgatgg tgaagatgaa 240
aatgaggggag aagattatgc cgaatagacc tctacatcct gtgctttnt cctagtttct 300
ctccaccctg ggaacattcg agagcaaadc aaaacctcta tccagacaag ac 352
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<210> 386

<211> 674

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (504)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (511)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (528)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (548)
<223> n equals a,t,g, or c

<220>
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<222> (555)
<223> n equals a,t,g, or c

<220>
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<222> (569)
<223> n equals a,t,g, or c

<220>
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<222> (589)
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<220>
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<222> (617)
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<220>
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<222> (631)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (666)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (672)
<223> n equals a,t,g, or c

<400> 386
gattctccct gggtagatcg acttcactgc agaccaggtg gacctgactt ctgctctgac 60

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caagaaaatc actcttaaga cccactggt ttcctctccc atggacacag tcacagaggc 120
tgggatggcc atagcaatgg cgcttacagg cggatttggc ttcattccacc acaactgtac 180
acctgaattc caggccaatg aagttcggaa agtgaagaaa tatgaacagg gattcatcac 240
agaccctgtg gtcctcagcc ccaaggatcg cgtgcgggat gtttttgagg ccaaggcccg 300
gcatggtttc tgcggtatcc caatcacaga cacaggccgg atggggagcc gcttggtggg 360
catcatctcc tccagggaca ttgattttct caaagaggag gaacatgact gnttcttgga 420
agagataatg acaaagaggg aagacttggg ggtagcccct gcaggcatca cactgaagga 480
ggcaaatgaa attctgcagc gcancaagaa nggaaagggtg cccattgnaa atgagatgat 540
gagcttgngg gcatnatggc cggacaganc tgaagaagaa tcgggctanc cactagcttc 600
aaagatgccca gaacaantgt ggggtgggcaa ncatgggact atgggtgccca gttaggtggc 660
ttgttnccaa cntg 674
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<210> 387

<211> 309

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

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<222> (188)

<223> n equals a,t,g, or c

<220>

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<222> (200)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (288)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

365

<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

<400> 387
tggaaattcc ccgnagacac tatnntaagg tacgcctgca ggtaccggtc cggaattccc 60
gggtcgaccc acgcgtccgc ccacgcgtcc ggggcggctg agacgccgcc tgcctggcac 120
ctaggagcgc agcggagccc cgacaccgcc gccgccgcca tggagtccga gaccgaaccc 180
gagcccgnca cgctcctggn gaagagcccc aaccagcgcc accgcgactt ggagctgagt 240
ggcgaccgcg gctggagtgt gggccacctc aaggcccacc tgagccgngn ntaccccgag 300
cgtncgcgn 309

<210> 388
<211> 408
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (382)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<400> 388
gcgagagcgc caganagaga agatcggggg gctgaaatcc atcttcatcc taccgctccg 60
cccgtgttgg tggaatgagc gttgcatgtg tcttgaagag aaaagcagtg ctttggcagg 120
actctttcag cccccacctg aaacatcacc ctcaagaacc agctaattccc aacatgcctg 180
ttgttttgac atctggaaca gggtcgcaag cgcancacaa ccagctgcaa atcaggctct 240
tgcagctggg actcactcca gccctgtccc aggatctata ggagttgcag gccgttccca 300
ggacgacgct atggtggact anttcttttc agaggcagca ttggtgagca gcttgggggg 360
aagaaggaan tggaagaagg cnggnattat taataagcaa acntcgat 408

<210> 389
<211> 601
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (467)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (487)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (522)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (552)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (576)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (584)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (597)
<223> n equals a,t,g, or c

<400> 389
gcgancancn ngcntaatca tggccattag gtgccattgt ttctctgtgg aggagtccat 60
gacgaaagat gaactgattg cccgcctccg ctgcgtgggt gaacaactga accgtgatgt 120
cagcctgacg gggacgaaaag aagaactggc gctccgtgtg gcagagctga aagaggagct 180
tgatgacacg aggcctaagc ttggcactgg ccgtcgtttt acaacgtcgt gactgggaaa 240
accctggcgt taccctaactt aatcgccctg cagcacatcc ccctttcggc agctggcgta 300
atagcgaaga ggcccgacc gatcgccctt cccaacagtt gcgnagcctg aatggcgaaat 360
ggcgctgat gcggtatttt ctccctacgc atctgtgcgg tatttcacac cgcataatggt 420
gcactctcag tacaatctgc tctgatgccg catagttaag ccagccncga caccgggcaa 480
cacccgntga cgcgccctga cgggcttgct gcttccggca tncgcttaca gacaagctgt 540

368

gaccgttccg gnagctgcat gtgtcaaaag gttttnaccg tatnaccgaa acgcgcnaaa 600
c 601

<210> 390

<211> 407

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<400> 390

ggtgaccggg gccaggcct atgcctccac cgccaagtgc ctgaacatct gggccctgat 60
tttgggcac ttcacgacca ttctgctcat catcatccca gtgttggtcg tccaggccca 120
gcgatagatc aggaggcatc attgaggcca ggagctctgc ccgtgacctg tatcccacgt 180
actctatctt ccattcctcg ccctgcccc agaggccagg agctctgccc ttgacctgta 240
ttccacttac tccaccttcc attcctcgcc ctgtccccac agccgagtcc tgcacncc 300
ctttatctc acacgctttt ctacaatggc attcaataaa gtgtatatgt ttctggtgaa 360
aaaaaaaaa aaaaaaaaaa aaaanaaann annaaaaaaaa aaaaaaa 407

<210> 391

<211> 566

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c

<400> 391
ttcaggttta ttaatgccag aagaagaata gtacagccca tgattgacca gtcaaatcga 60
gcagtgcagc aaggagcagc atatatgccg gaggggtcagc ccatggggag ctttgtgttg 120
gatggtcagc aacacatggg gatccggcct gcagggttgc agagcatgcc aggggactac 180
gtttctcagg gtggtcctat gggaatgagt atggcacagc caagttacac tcctccccag 240
atgacccac accctactca attaagacat ggacccccaa tgcattcata tttgccaagc 300
catccccacc acccagccat gatgatgcac ggaggacccc ctaccacccc tggaatgact 360
atgtcagcac agagccccac aatgttaaata tctgtagatc ccaatgttg cggacaggtt 420
atggacattc atgcccaata gtntaagggg actcaaggga aaagggaaca cacgcaaaaa 480
ctattttaag acttctggaa ctttgaccag gtgttgacac ttaatatgaa attccagaca 540
gctgtgatta tttttaactt tggcat 566

<210> 392
<211> 425
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)

370

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<400> 392

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cccacatctctg accatgaggc caccctgagg tgctggggccc tgggcttcta ccctgaggag 60
atcacactga cctggcagcg ggatggggag gaccagacc aggacacgga gctcgtggag 120
accaggcctg caggggatgg aaccttccag aagtggggcg ctgtggtggt gccttctgga 180
gaggagcaga gatacacctg ccatgtgcag catgagggtc tgcccaagcc cctcaccctg 240
agatggggagc tgtcttccca gccaccatc cccatcgtag gntcattgc tggcctgggt 300
ctccttgac tgtgatcact ggagctgtgg tccctgccct gatttngtag gaagnaaan 360
ctcnntattg aaaaaggagg gattttcact cctgctgct aagcanttga caattgcccc 420
aaggg 425
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<210> 393

<211> 443

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (355)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<400> 393

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ctcgggctgg gccttattat ccatcacaag aagatgagcc ccagcacgan gcctccaatg 60
ccactcagca tcttgctctg ggcagattca gactgagccc gccactccac ggtgatgggg 120
ttctggaggc tggggtgctc catgtggcag gtgtagacgt ctccatgctg gggagtcatt 180
tccagcatca ccaggatctg gaagggtccag tcaccgttcc taataagggg ggtggacaca 240
acgccggttg tctctcctg gtcattccga atctgcccag agcaagatgc tgagtggcat 300
tggaggcttc gtgctggggg catcttcctc gggctggggt tattatccat cacangatca 360
gaaanggtc ctgcactgac tcctnagact attttaactg ggattggtat cacttttcng 420
taagcctgct tgtccctgcc can 443
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<210> 394

<211> 189

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (84)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (137)
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<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
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<222> (148)
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<220>
<221> misc feature
<222> (177)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<400> 394
ggnagaggtc atccctaanc accatcaact ataatgagtt tccnaccatg gtgtttcctt 60
ctggnccagat cagcnagggn tcgnccttgg ccccgggccc tccccaagtn cctgccccag 120
gttccagccc ctgcccntgn tnccagcnat ggtatcagct ctggcccagg ccccgagccc 180
tntgcccag 189

<210> 395
<211> 349
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (315)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<400> 395
gcacgagctg accgccaagt atctcaacta ctatcggggg atgctggacg tcgcccata 60
gcagggtggac ttcaaggact tctaccgggc catagcagtg aatgatgtgc gccaggctgc 120
ccgcagcgcc gccagctaca tgctcttcga cccaaggac agcgtcatgc agcagaacct 180
ggtgtattac cggttccacc gggctcgctg gggcctggaa gaggaggact tccagccccg 240
ggaggaggcc atgctctacc acaaccagac cgccgagctg cgggantgct ggagtgcanc 300
cacatgtacc tgcanttaag atgatgaaat tggancnggg aaggaaaca 349

<210> 396
<211> 304
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (239)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (263)

<223> n equals a,t,g, or c

<400> 396

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cctgacaggc cctggggccaa gcccgaggac ccttctctcc tggaggatcc caggatcaag 60
gcgatcgag ccaagcacia taaaactaca gccaggtcc tgatccggtt ccccatgcag 120
aggaatgggg gtggatcccc aagtctgtga caccagaacg cattgctgag aactttaagg 180
tcttttgact ttgaactgag cagccaggat atgancacct tactcagcta caacangant 240
gaagggtcttg ttgctgtttn agntgttcct cccacaagga ttacccttca taaaaatttt 300
ggaa 304
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<210> 397

<211> 349

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (128)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (161)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (288)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (315)

<223> n equals a,t,g, or c

<220>

375

<221> misc feature
<222> (318)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c

<400> 397
tgtccaaggg catccgggac aacgagcggg gtggccgggc ccgagtgcac gtgtctgagg 60
agggcactga gcccgaggcg atgctccagg tgctggggcc caagccggct ctgcctgcag 120
gtaccganga caccgccaag gaggatgcgg ccaaccgcaa nctggccaag ctctacaagg 180
tctccaatgg tgcattggacc atgtccgtct ccctcctggc tgatgaaaac ccttccgcca 240
aggggcctga aattcagaag actgcttcat cctggaccac gcaanatngg aaatctttgt 300
cttgaaaggc aacangcnac acgaagaaaa gaaagggtgcc tccanacca 349

<210> 398
<211> 638
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (495)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (515)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (523)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (540)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (543)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (560)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (563)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (578)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (624)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (636)
<223> n equals a,t,g, or c

<400> 398
tagcctcata nnggacaaan nggatccgc gtgacgnccg tctaaatatg gatccccggc 60
gcagattcgc acagggagac aggactcgat gacagacagg caggtctcgt gagggaacgg 120
gggcccgggac ttcgtaagga gagacctggc cataagggac acctttgtga atgcctctcg 180
gaccctgtac agcagcagcc ccagagtcc t aagcaacaac agtgacgcc acttgagct 240
catcaacacc tgggtggcca agaacaccaa caacaagatc agccggctgc tagacagtct 300
gncctccgat acccgccctg tcctcctcaa tgctatccta cctgagtgc aagtggaaga 360
caacatttga tcccaagaaa ccagaatgga nccctttcac ttcaaaaact cagttataaa 420
gtgcccattga tgaatagcag aagtnccctgt gggccatttc attgaccaac ttgaaagcca 480
aggtggggag tgcantctcc acaatctgag ttgngatct ggnccccaga cctgaaacan 540
cgnttttaaa catgggacan ggnctagccc ttctgttnaa aggcacatg gggaaactgg 600
gatgtccaag tccagccaaa agtngttact tcccgnat 638

<210> 399
<211> 245
<212> DNA
<213> Homo sapiens

<220>
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tcaccnatgt ccaccaagcc ctgaagggen tcacaaccaa aggtgtcacc tcagtctctc 180

aaatcttcca ntgcccngaa ctggccataa gggacccttt gtgnaatgcc nctcggaccc 240
tgttc 245

<210> 400

<211> 364

<212> DNA

<213> Homo sapiens

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<222> (290)

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<220>

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<220>

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<222> (293)

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<222> (331)

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<220>

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<222> (349)

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gagcggaaac ggctctacat ctttgtgcca gaagctacat ctgcaaaacc accattgggg 180
acagggaggt ggatctgat gcctactatg tctacagact ccaggggtgag cccctttct 240
ggcctgatgc tcagcagagt gttcatccat caacgtctct gtggaacgcn tnnaggactg 300
tgggccgcca ggtggagaac atcaccttca ngtgcattgt ggatcgggna tgaggtgtca 360
attt 364

<210> 401

<211> 409

<212> DNA

<213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
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 <222> (405)
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<400> 401
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 cggcctctac agagcccca gggcctcggc cggtcctggg ccgtgagagt gtccaggtgc 120
 ccgatgacca agactttcgc agcttcgggt cagacgggct acctcatcca gagcacagg 180
 cccaagagct gcgtcatcac ctacctggcc caggtggacc ccaaaggctc cttaccaag 240
 tgggtggtga ataaatcttc tcagttcctg gctcccaagg ccatgaagaa gatgtacaag 300
 gcgtgcctca agtaccgccga gtggaaacag aagcacctgc ctcacttcaa gccgtggctg 360
 cacccgagac agagcccgnt gccgagcctg ncgctgcgga gctgncggg 409

<210> 402
 <211> 437
 <212> DNA
 <213> Homo sapiens

<220>
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<400> 402
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 tgccctcttg ccctcaacct catcttgatg gcagcctctg gtgctgtgtg cgaagtgaag 120
 gacgtttgtg ttggaagccc tggatatccc ggcactcctg gatccacagg cctgccaggc 180
 agggacggga gagatggtgt caaaggagac cctggccctc caggcccatc gggccacct 240
 ggagaaatgc catgtcctcc tggaaatgat gggctgcctg gagccctgg tatccctgga 300
 gagtgtggag agaaggggga gcctggcgag aggggcccctc cagggtctcc agctcatcta 360
 gatgaggagc tccaagccac actccacgac tttagacatc aaatcctgca gacaagggga 420
 gccctcagtc tncaggg 437

<210> 403

<211> 203
<212> DNA
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<220>
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<220>
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<222> (163)
<223> n equals a,t,g, or c

<220>
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<222> (182)
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<400> 403
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tatcaacatt gtcgtcattg gacacgtaaa ttcgggcaag tccaccacta ctggccatct 120
tatctatata tgcggtggct tcnacaaaaa ancctttgaa nantttgaaa aggaggctgc 180
tnatatggga aagggtcct cca 203

<210> 404
<211> 383
<212> DNA
<213> Homo sapiens

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<220>

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<223> n equals a,t,g, or c

<220>
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<222> (368)
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tgccgacaag gcatctgccg ggcgctcagg agcccagagc ccccagaact gcagcatcat 120
gtaatctggg acctgccagg caggggtggg ggtggaggct tcctgcgtcc tcctcacctc 180
atgccacccc cctgccctgc acgtcatggg agggggcttg aagccaanga aaaataaccc 240
tttggttttt ttcttctgta tntttttttc taagagaant attttctaca gtggttttna 300
tantgaanga aaaacacaag caaaaaaaaa aaaaaagggc ggccgctcta naggatccaa 360
agcttacnta cgcgtgcatg cga 383

<210> 405
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<222> (25)

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<220>

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<222> (173)

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<222> (208)

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<220>

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<222> (298)

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<222> (406)

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<220>

<221> misc feature

<222> (416)

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<220>
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gaacttggtgc gagcctcaag tcaactccaca gacctcatgg aagccatggc catgggcagc 120
gtggaggcctt cttattaagt gtttagcagc agctttgata gttctgacgg anntgggcag 180
gtctgctcac caggtggcca gataccgncc acgtgcccc atcattgctg tggaccggg 240
aatccccaga cagttcgtca aggccanct tttaccgtgg gcattcttcc ctgtgctntt 300
gcaaggaccc cattccagga ggcttggtt ttaggacgtg ggaccttccg gtggaacttt 360
tgccatgatt tttgggaaag gccnagttt tttcaagaag ggganntggt caatngttt 420
gaccgttngg gcc 433

<210> 406
<211> 429
<212> DNA
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<220>
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<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (426)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

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tcaagtagat ttcttgatc atgttccct cacaacacac aactttgctc ggaagacgtt 120
cctgaagcctt gccttctgtg acatctgtca gaaattcctg ctcaatggat ttcgatgtca 180
gacttggtggc tacaaatttc atgagcactg tagcaccaa gtacctacta tgtgtgtgga 240

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ctggagtaac atcagacaac tcttattgtt tccaaattcc actattggtg atagtggagt 300
cccagcacta ccttctttga ctatgcgtcg tatgcgagag tctgttccaa ggatgcctgt 360
aagttctcag cacagatatt ctacacctca ngccttcanc tttaanacct ccagtccttc 420
atctgnang                                     429
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<211> 270

<212> DNA

<213> Homo sapiens

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<222> (74)

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ccagggtcac caangtcctg ggcaggaccg gttctcaggg acagtgcacg caggtaatcg 120
ggtgggggca ttngccgac tgccgncnac ctaaaccctg atgtgacctc taccctgccc 180
taaccctgc cagccggaat ccggganccg attcncattn natcacaggg ttctgatggt 240
tccctttaac natctgtatt ctggccccga 270

<210> 408
<211> 655
<212> DNA
<213> Homo sapiens

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<221> misc feature
<222> (268)
<223> n equals a,t,g, or c

<220>
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<222> (295)
<223> n equals a,t,g, or c

<220>
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<222> (329)
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<222> (401)
<223> n equals a,t,g, or c

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<222> (497)
<223> n equals a,t,g, or c

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<222> (508)
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<222> (517)
<223> n equals a,t,g, or c

<220>
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<222> (568)
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<221> misc feature
<222> (633)
<223> n equals a,t,g, or c

<220>
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<222> (654)
<223> n equals a,t,g, or c

<400> 408
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cggggggggtg tcagtacctg cgctgtggag tgaagtgaac cggatatggc agaacggcga 120
cttcacgcgc gctctcaaga ccgtcaataa gatactacag atcaacaaag atgacgtaac 180
tgccctgcat tgtaaagtgg tatgccttat ccanaatgga agtttcaagg aagctttgaa 240
tgtcatcaat actcacacca aagtgttngc caataactct ctctcctttg aaaangcata 300

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ttgcgaatac aggctgaaac agaattgana atgccttgaa aaacaataga aagtgccac 360
ccagcagaca gacaaactga aaggaacttt atggacaatt nttnttccgt ttgggaaagc 420
ttttaataaa tgcttaacaa tgttttaaaa tttcttccga aactcccca ataattttaa 480
taaggaaaag gaaaacnacc tttcccntt nttgcantcc aaacattgga aaattggtcc 540
caaaaactgg cccccaaaag gcattaantt tntaaacttt tttttttttt ggccggccct 600
taacccctn aatccccaaa ttaaattttg ccncccttc caaaaattgg gagna 655
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<210> 409

<211> 376

<212> DNA

<213> Homo sapiens

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<222> (223)

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<220>

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<222> (246)

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<220>

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<222> (250)

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<222> (259)

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<222> (273)

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<220>

<221> misc feature

<222> (291)

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<220>

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<222> (361)

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<220>

<221> misc feature

<222> (364)

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<220>
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<222> (367)
<223> n equals a,t,g, or c

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ggcatatgag ggacagatgg agtgagtcag tgacaggagc agcgactgga cccagagcca 120
tgtggctgtg ccctctggcc ctcaacctca tcttgatggc agcctctggt gctgcgtgcg 180
aagtgaagga cgtttgtgtt ggaagccctg gtatccccgg cantcctgga tcccacggcc 240
tgccangcan ggaagggana aatggtgtca aangagacc tggccctcca nggcccattg 300
gtccgccttg agaaacaaca tgtcctcctg ggaataatgg gctgcttgag cccctggtgt 360
nccnganaaa cnttga 376

<210> 410
<211> 651
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (624)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (643)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (646)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (650)
<223> n equals a,t,g, or c

<400> 410

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gaagggccac gaacactcaa tccagtttgc tgagatgaag ctgagaccaa gcaacttcag 120
aaatcttgaa ggcagggcga aacgggcata aattccaggg accactgggt gagagaggaa 180
taaggcccag agcgaggaaa ggattttacc aaagcatcaa tacaaccagc ccaaccatcg 240
gtccacacct ggcattttgg tgagagtcaa agctgaccat ggatccctgg ggccaacggc 300
aacagcatgg gcctcacctc ctctgtgatt tctttctttg caccaaagac atcagtctcc 360
aacatgtttc tgttttggtg gttgattcag caaaaatctc cagtgacaac atcgcaatag 420
ttttttactt ctcttaggtg gctctgggaa tgggagaagg gtaggatgtc aggggtagtt 480
tggttttagaa ccagccgtat ttacatgaac tggataatta atggcattat tttggtagca 540
aagattaaag ggcatttga agccatccct tttttacatt tnatccacag aaaccagaaa 600
agcaatactg gttccattta aggntatgat taatatatta atntantaan g 651
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<210> 411

<211> 392

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

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<222> (220)

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<220>

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<222> (354)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (355)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<220>
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<222> (391)
<223> n equals a,t,g, or c

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cccaggccga accggtgcag ttcaaggact gcggttctgt ggatggagtt ataaaggag 120
tgaatgtgag cccatgcccc acccaaccct gccagctgag caaaggacag tcttacagcg 180
tcaatgtcac cttcaccanc aatattcaan ctaaaagcan caaggccgtg gtgcatggca 240
tcctgatggg cgtcccagtt ccctttccca ttcctgagcc tgatggttgt aagagtggaa 300
ttaactgccc tatccaaaaa gacaagacct atagctacct gaataaacta ccanngaaaa 360
gcgaatatcc ctctataaaa ctgngngngg na 392

<210> 412
<211> 645
<212> DNA
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<220>
<221> misc feature
<222> (477)
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<222> (505)
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<220>
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<222> (611)
<223> n equals a,t,g, or c

<400> 412

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cggatgacga gaagtatctg tggaaggacc tgaccctgga ccaggcctat agctatgctg 120
tggaagaatgc caaggacatc atcgctgtg gctttgacat caacaagact ttcataattct 180
ctgacctgga ctacatgggg atgagctcag gtttctacaa aaatgtggtg aagattcaaa 240
agcatgttac cttcaaccaa gtgaaaggca ttttcggctt cactgacagc gactgcattg 300
ggaagatcag ttttcctgcc atccaggctg ctccctcctt cagcaactca ttcccacaga 360
tcttccgaga caggacggat atccagtgcc ttatcccatg tgccattgac caggatcctt 420
actttagaat gacaaggggac gtngcccca ggatcggcta tcctaaacca gccctgntga 480
ctccaccttc ttcccagccc tgcanggcgc ccagaccaa atgagtgcc gcgaccccaa 540
ctcctccatc ttctnaccg acacggncaa gcagatcaaa accaagggtca ataagcatgc 600
gttttctgga nggagagaca ccatcgagga gcacaggcag tttgg 645
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<210> 413

<211> 540

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

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<222> (186)

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<221> misc feature

<222> (240)

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<220>

<221> misc feature

<222> (357)

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<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>
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<222> (374)
<223> n equals a,t,g, or c

<220>
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<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>
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ccggccctgt gattccggag tcccctttga accatcgaag cctccagtca ttgaggggct 120
gagcccactg tttacaggaa tccagagagt ttcaaggaaa agttcgttcg caagaccgc 180
gagaanccgg tggtaacctat aggttgcttg gccacggcgg ccgcccctac ctacggcctn 240
tactccttcc accgggggca acagccagcg ctcttcagct catgatgcgc acccggtatcg 300
ccgcccaggt ttcaagggtc gcagccatct tgctgggtct ggggtgtcat gctatgnaat 360
tttcgaaccn taanccaggt ttggnnttga aaagtncgca gaaatggntt ccaaaaancca 420
gggagcaaac aatggggcct acntngggat ttattccctc ntttcttttg aaaggcccn 480
tttcgttgg ggaagnaatt gaacctttgt gtaatgttaa cgaaaatttt ttnaaaatcc 540

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aaaaanaaaa aaaaaaaang gggaaaang 90

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<400> 415

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aatcccctta tttctgtttt gcatatgagg aaccctagag cagccaggtg aggctctcta 120
gtttaataaa aatcatggaa agactcttaa tgcagactct tcttaagtgt taatagggat 180
tttttcagct tattttgggt gcagtttcca atttttaaaa atgttgaggg taatctttcc 240
caccttccca aaccttaatt cttggtagat ggcattagtg ttggaaccaa tgctttcntc 300
atgtcttcaa ttctttggta tatggcnttc ctttncagat gtatttaaac aaacaaaaac 360
cctttaaaaa aaaaaaaaaa aaccgggggg gggggggccc gnaaccatt ccccccaaaa 420
gnggagnggn atnacattca cgggccgggg tttaacagtg t 461
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<210> 416

<211> 289

<212> DNA

<213> Homo sapiens

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<220>

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<222> (5)

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ggtaaaaaaa gtaaaaggga actcgggcaa atcttanccc gcctntttac caaaaacatc 120
anctctagca tcaccagtat tagaggcacc ggctngccca gtggacacat gtttaacggg 180
ccgcgggtac cctaaccgtg gcaaaggtta gcataatcan tgttccttaa ttangggacc 240
tgtatngaatt ggcttccacg agggtttcag ncgtctcntt acttttttaa 289

<210> 417
<211> 146
<212> DNA
<213> Homo sapiens

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<222> (18)

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<222> (123)

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<222> (140)

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gtgccggttag tggatttggt ttnggccggt ggagtgggtg tggntttggn cttggtggcg 120
gantgtgttt tggaggtggn ttcggt 146

<210> 418

<211> 400

<212> DNA

<213> Homo sapiens

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tatacgattg naaggnttat gtcactaaag atttttattc tgattntttc ataatacaaag 120
gtcatatgag actggtagag acaagntttg tagtgaagta nngtngcant aatttctgta 180
cctgatcaag tttattgcag cctttctttt cctatttctn ttntttangg gttantntna 240
acaaatggca atgagtagaa aagttaacat gaagatttta gaaggagaga acttacatga 300
cacagatttg tgagtctgtg actgtgacac tattgnatgt gattgtaaaa gctttnattg 360
agcattgnca aatttgtaag nttcataggg atggacatna 400
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<210> 419

<211> 282

<212> DNA

<213> Homo sapiens

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catgagatgg agccctcctt attcccacac aggatgagca atcctggcca agcataatga 120
cagagagagg cagacttcgg ggaagccctg actgtncaga gctaaggaca cagtggagat 180
tctntggcac tctgaggtct ctntggcagg cctggtcagg ctctccatga ggtagaagg 240
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<210> 420

<211> 508

<212> DNA

<213> Homo sapiens

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 atctgtnagt tctgagaggc atttaggcca tgggacaggg aggacgctct ctggccttcg 120
 gctccatcct gaggctccac ttggtctgtg agatgctaga actccctttc aacagaattc 180
 acttggtggct attgggactg gaggcaccct tagccacttc attcctctga tgggccctga 240
 ctcttcccca taatcactga ccagccttga cactccnttg caaattttcc agcactgaac 300
 ccaggnagca ntcttagcct tggcttcgac atgagatgga gcctcttatt nccatctggg 360
 ccagttcctt aattacagat ggnagnatta gggtttgggt agaagnccctc aannnaaaaa 420
 agggctgctt ctggtcctna gttttttttg naaccagtgc attaggtgga atctggcaga 480
 tatnnagagn gagatttggt gagcttat 508

<210> 421
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<220>
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tcttgagagcc tgaaaagaag cnggagcnnn gactgggtacc cananccatg tggctgtgcc 120
ctgctgggcc ttnnaaccnca tcttgtatng gcagnttctg gtgctgcgtg cgaatnnaag 180
gnacgttttg tnttggaagc cctgntatcc ccggcactcc tggatccac ggnctg 236

<210> 422
<211> 381
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<220>
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<222> (361)
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<220>
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<222> (364)
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<400> 422
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antacaccca gatggcctga agcaactgaa gatccacaaa agaagtgaaa atagccagtt 120
cctgccttaa ctgatgacat tccaccattg tgaatttggt cctgccccac cctaactgat 180
caattgacct tgtggacaat acaccttccc cacccttgag aagggtgctt gtaatatnt 240
nccacccac cccacgggcc gaacccnngg naccnttga ggaaggntt ttggtaatat 300
tgctntgagg gnattggagg aatgtggntt tngtaaagnt tgcnagcncg ttgggnccac 360
naanaattgg gttggttaaa t 381

<210> 423
<211> 429
<212> DNA
<213> Homo sapiens

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tttttaggga gaaaaataaa tatatgctgt agtggccaca aataggccta tgatttanct 120
ggcaggccag gttttctcaa gagcaaaatc accctctggc cccttggcag gtaaggcctc 180
ccggtcagca ttatcctgcc agacctcggg gaggatacct gggagacaga agcctctgca 240
cctactgtgc agaactctcc acttcccaa ccctcccag gtgggcaggg cggaggggagc 300
ctcagcctcc ttagactgac ccctcaggcc cctaggctgg ggggttgtaa ataacagcag 360
tcaggttggt taccagccct ttgcacctcc ccaggcagag ggagcctctg ttctggtggg 420
ggccacctc 429

<210> 424
<211> 441
<212> DNA
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<220>

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ccacagggac cagtttaatg tgtccttgcc ccagtgatga cagctgggga tctgggggtg 60
gggagtcacc caggaccgg gcagtcgcct ttccccagct cctaaggctc cgggccttcc 120
ctgctgaaac agcaagacca gtgggttggc gtgggaggcc tgggcttcaa accacctctg 180
cnatcacctg gctgtnggtc cccaagcagg acatacacac agtccctctc tngccctcat 240
cctcctncaa gtgnaaagga aaagccaagt taaaanggct cttgggacca tgggtancna 300
gctttttccc tnnaccctng gccttgccaa nngccagggt aaaaaaaact taagttccaa 360
aacggccttt taacgccttc ctcgaaaata cttccactgg tggaccaagg gccccagcct 420
gngtnngctt gtttggttaa a 441
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<210> 425

<211> 419

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

412

<220>
<221> misc feature
<222> (184)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<400> 425
cccacgngtt cgagacagga aaaaaagcaa cttttccaac atacaattta cttttaataa 60
agtatganta ttcatTTTTg agaacattcc ctggaattgc cacataattc attaaaaaca 120
TTTTTTtaag caacacttgg gaacagtgtt tactttaaat ccttaatggc cttaattaat 180
tctnagattc ctgccccatc acttacagaa ccaattcact ttagagtgc taaaaggaaa 240
cgatagccta gctttctaaa gccacgtgt gtccctcaat tacagagggt aggaatgggt 300
ataactctta actgtggcaa agcagagtgg aaattncaat ttcataggan taaacaactg 360
ctgggggnat attccgtgcc caggnaaagg gaaaattttc tgggcaaata ttttgnca 419

<210> 426
<211> 407
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
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<222> (336)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c

<400> 426
gcttactacc agacaacctt agccaaacca tttacccaaa taaagtatag gcgatagaaa 60
ttgaaacctg gcgcaataga tatagtaccg caagggaaaag atgaaaaatt ataaccaagc 120
ataatatagc aaggactaac ccctatacct tctgcataat gaattaacta gaaataactt 180
tgcaaggaga gccaaagcta agacccccga aaccagacga gctacctgng aaacagctgn 240
aagagcacac cagtctatgt agcaaaatag tgggaagatt tataggttga ggcgacaaac 300
ctaccgagcc tgggtgatagc tggttgtcca agatanaatc ttagttcact ttaaatntgc 360
ccacagaacc ctctaaatcc ccttgtaaatt ttaactgttn aaaaann 407

<210> 427
<211> 423
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (315)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (356)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (358)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<400> 427

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accacgcgt cgcctcaagt atagtggagaa ctcaatcttg aataacattt agaaagaatc 60
tcgctatact tgagactaga tgacaaataa atgttattca agattgagtt ctactagtg 120
tttttttaat cctaaaaaag taatgttttg attttgtgac agtcaaaagg acgtgcaaaa 180
gtctagcctt gcccgagctt tccttacaat cagagcccct ctcaccttgt aaagtgtgaa 240
tcgcccttcc cttttgtaca gaagatgaac tgtattttgc attttgtcta cttgtaagtg 300
aatgtaacat actgncaatt ttccttgttt gaatatagaa tggnaacact acacgngnac 360
attncagag cctgggggtat attgccaatg aactttttgc aagcacactt gtaaccaa 420
gng                                     423

```

<210> 428

<211> 378

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<400> 428

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gcggagggtt cagnntagaa ggtgatgtca gctccagctc ccctctgtcg gtggtggggc 60
ctcaccttga agaggggaagt ctcaatatta ggctaagcta tttgggaaag ttctccccac 120
cgcccttgta cgcgtcatcc tagcccccct taggaaagga gttagggctc cagtgcctcc 180

```

415

```
agccacaccc cctgccttcc ccagcttgcc catttccctg ccccaaggcc cagagctccc 240
cccagactgg agagcaagcc cagcccagcc tcggcataga ccccttctg gtccgcccg 300
ggctcgattc ccgggattca ttcctcagcc tctgcttntc ccttttatcc caataagtta 360
ttgctactgc tgtgaagg                                     378
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<210> 429

<211> 92

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<400> 429

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ggcacagtgg cagtgtagcg agnaaaggtt ttcgcctcct gtttcagcgg tgacggctct 60
tgggttttcn cgggnnngct ttttaatttt ag                                     92
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<210> 430

<211> 410

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (343)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<400> 430

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gcaaaacctt aaatctccag gctttttaaa gcacaaaata taaataaaag ctgggaaagt 60
aaaccaaaat tcttcagatt gttcctcatg aatatcccc ttctctgca attctccaga 120
gtggtaacag atgggtagag gcagctcagg tgaattaccc agcttgccctc tcaattcatt 180
cctcctcttc ctctcaaagg ctgaaggcag ggcctttcca gtctcacia cctgtccttc 240
acctagtccc tcctgacca gggatggagg ctttgagtcc cacagtgtgg tgatacagag 300
cactagtgtg cactgcctgg ctttatttaa aggaatgcag tangcttcct ctgtagagct 360
ctgaaaangt tgactatata gaagtcttgt atgtttttac ttgggtaaga 410
```

<210> 431

<211> 611

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (327)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>
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<222> (494)
<223> n equals a,t,g, or c

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<222> (525)
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<220>
<221> misc feature
<222> (536)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (563)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (583)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (605)
<223> n equals a,t,g, or c

<400> 431
gcaaacagat aacagaagat acagttgagt ttggctctta gagaaatctg gagaactata 60
cctgcttcag tgaaataatt acagaatata cttagaaagg caaagtacat tgtaaaataa 120
agttgagctt agtttttttt aaaaaaaaaa acaaagcaac aaattaacta gatacagaat 180
aatggagaac aagttgttaa aacatttaat attatatagg atattgctaa ttgtgtatat 240
gttggtttta ttaataatat gtactaagaa tgccttatt cttgnggta aaaacctgcc 300
taaattaaat tgggcttcaa tcaactgnaac ctgattcatc ctgggatgna aaccattcga 360
agtcagctaa ttggactttt atggctctat cttttncttn agtgaagaac cctatttaaa 420
actgggtcat caattggctg gtctaacaag gatagtcctc aggttcaatt tnctgggcc 480
tgnggtaagt tggnaacaaa tcataatgga ttaattaaaa ggtnnaccat cattgnatta 540
cagcggttat tataccgggg canaattctt tacttgcccc agnaatccta attccttggg 600
ggggncttgg a 611

<210> 432
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

<222> (226)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<400> 432
ggcagagttt ttacagcaaa aactgctcaa agccatttaa attatatacct catttttaaaa 60
gttacatttg caaatatttc tccctatgaa taatgtagtc gatagtgtgc actctttctc 120
tctctctctc tctctctcac acacacacac acacacacac acacacacac acagacacgg 180
caccattctg cctggggcac tggaacacat tcctgggggt caccgntggg cagagtcact 240
aggagggttac ctgagtanct tggggngggc taatgtctcn tgggggnttt t 291

<210> 433
<211> 124
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (114)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<400> 433
ctcgtgccga attcggcacg aggagagaga gagagagaga gagagagaga gagagagaga 60
gagagagaga gagagagaga gagagagaga gagagagaga gagagagaga gngngggcna 120
nnag 124

<210> 434
<211> 382
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (86)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (106)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature

420

<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (254)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (269)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<400> 434
cgcggtccgct tggttttaaaa aaatgcacaa ttactttccc aaaaaagttg ttacttgcct 60
tttcaanttg ttgacaaaca cacatntgat attctcttat atgttntagt aatgtnacgt 120

421

```
anaaactcaa gcctttttat tctttgtgat taaatcctgt tttaaaatgt cncaaaacag 180
gaaccagcat nctaattgga tttactatat cgagatatgg ttcaaantngg actactaaaa 240
ttcattgaac actnaaacta tgaaacnant actttttata ttagtgaaga catgggatnt 300
aacttatgga aaatccaagt ngcagganag taatttttgt ntactttttt aaccagactg 360
gaatgggtga agnactagtg cg                                     382
```

<210> 435

<211> 323

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (200)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (209)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (249)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (292)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (323)

<223> n equals a,t,g, or c

<400> 435

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gccgaggtcc ccgcgccaga gacgcagccg cgctcccacc acccacaccc accgcgccct 60
cgttcgccctc ttctccggga gccagtcgcg gccaccgccg ccgcccaggc catcgccacc 120
ctccgcagcc atgtccacca ggtccgtgtc ctgcgtcctc taccgcagga tggtcggcgg 180
cccgggcacc gcgagccggn cgagctcanc gggagctacg tgactacgtc acccgcacct 240
```

422

acagcctgng cagcgcgctg agccccaacn ncagccgcac ctctaccctc gntcccgggc 300
ggcgtgtatg ccacgcgctc ctn 323

<210> 436

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (313)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (493)

<223> n equals a,t,g, or c

<400> 436

gaattttgaa tgtattttta aattttat ttcaaaataa tgacattagt aaaaatttta 60
catagcctgt attgaattca cacattcaaa tgaggcttta ccagtaatga tggggattaa 120
tacagagcta gtgtttggca tttgacttta tctcaaatga gctaactgct caatgaatta 180
cagaagactc atactctttt tattttttcc tggaaattaa aaaagaaaag ctttactaaa 240
tattgacata tatatttact ccaaatttta catttagtga aataagaata tctctagtag 300
ctcagttaac atncaaccag gaaagcttca aaaagatgat tctgaaaatg gcaggcaaaa 360
tttcttttta ttgtaggcaa ttcttaaact ggaaatttgg ctntatgcat aataagtcac 420

423

gtgggtaaaa catccacctt gcagttaggg tnccagnatc ctaaccttnc taatttatTT 480
ctnttaggcc aantggacca ttt 503

<210> 437
<211> 77
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (71)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<400> 437
ggcacgagga gagagagaga gagaganaga gagagagaga gagagagaga gagagagaga 60
gagagagagn ntncgcn 77

<210> 438
<211> 424
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (288)
<223> n equals a,t,g, or c

424

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (387)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

<400> 438
attcaggggc tgacacttca aggtgacaga aggaccagcc cttgagggag aacttatggc 60
cacagcccat ccatagtaac tgacatgatt agcagaagaa aggaacattt aggggcaagc 120
aggcgctgtg ctatcatgat ggaatttcat atctacagat agagagtttg ttgtgtacag 180
acttggtgtg actttgacgc ttgcgaacta gagatgtgca attgatttct tttcttcctg 240
gctttttaac tcccctgttt caatcactgt cctcccacac nagggaanga cagaaaggaa 300
attggccttc ctttttttcc ttggccccct tcccccaagg cctttaaaact tttggaaccc 360
caaggaaaac tgnnttgaa aaaccnttt cncnggggtt gnaaaaaatt gggaaanccn 420
ccca 424

425

<210> 439
<211> 382
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c

<400> 439
gcccagccca gaacaggggt ggattcccca acctcaacct cctttcttct ctgctcccaa 60
accatgtcag gaccaccttc ctctagagct cggagcccg gaggtcttc acccactcct 120
actccagtat cagctggcac gggctccttc ctgagagcaa aggtcaagga cccctctgt 180
gaaggctcag cagaggtggg atcccacgcc cctcccggc cctccctgc cctccattca 240
gggagaaacc tctccttccc gtgtgagaag ggccagaggg tccaggcatc ccaagtccag 300
cgtgaagggc cacagnccct cttggctgcc aagcacgcag atcccatgga catttgngga 360
aagggtcct tgcctgcngn ng 382

<210> 440
<211> 231
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

426

<222> (143)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (186)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<400> 440
gaagaaatca aaacaagatc acaagaatac tgaaaaaatga agcctaaaat gaagtattca 60
accaacaaaa ttccacagc aaagtggaag aacacagcaa gcaaagcctt gtgtttcaag 120
ctgggaaaaat cccaacagaa ggncaaagaa gtttgcccca tgtactttat gaagctccgn 180
tctggncctta tgataaaaaa ggaggcctgg nactttanga gagaaaccac c 231

<210> 441
<211> 86
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<400> 441

gggcgggttg tgcggcctcc attgttcgtg ttttaaggcg ccatgagggg tgacagaggc 60
ctgtggtcnt ggnggaacnt ttgnnt 86

<210> 442

<211> 541

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<400> 442

caaaccctag ccaccttact accagacaac cttagccaaa ccatttaccc aaataaagta 60
taggcgatag aaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120
aattataacc aagcataata tagcaaggac taacccttat accttctgca taatgaatta 180
actagaaata actttgcaag gagagccaaa gctaagacct ccgaaaccag acgagctacc 240
taagaacagc taaaagagca caccctgcta tgtagcaaaa tagtggaag atttataggt 300
agaggcgaca aacctaccga gcctgggtgat agctgggtgt ccaagataga atcttagttc 360
aactttaaat ttgcccacag aaccctctaa atccccttgt aaatttâact gttagtccaa 420
agaagaacag ctctttggac actaggaaaa aacttgtaga gagagtaaaa anttaacacc 480
catagtaggc taaaagcanc nccaatttaa gaaagcgttc aagctcacac ccactaccta 540
a 541

<210> 443

<211> 408

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<400> 443

```
cgacgaggtt ttccagggtta catgtataca gatttagcca cgatatatga acgcgctggg 60
cgagtggaaag ggagaaacgg ctcgattact caaatcccta ttctaaccat gcctaataatgat 120
gatatacactc accccatccc agacttgact ggctacatta cagaggggca gatctatgtg 180
gacagacagc tgcacaacag acagatttat ccacctatca atgtgctgcc ctcactatca 240
acgggttaatg aagtctgcta ttggagaagg ggatgaccag gaaggatcat gccgatgtat 300
ctaaccagct tnattgcctg ctatgctatt ggaaagggat gtgcaagcca tgaaagcttg 360
cgttgagaaa aaaancctta cttaaangan cntctctact tggaaatc 408
```

<210> 444

<211> 323

<212> PRT

<213> Homo sapiens

<400> 444

```
Arg Lys Lys Met Ala Leu Thr Ser Phe Leu Pro Ala Pro Thr Gln Leu
  1              5              10              15
```

```
Ser Gln Asp Gln Leu Glu Ala Glu Glu Lys Ala Arg Ser Gln Arg Ser
      20              25              30
```

```
Arg Gln Thr Ser Leu Val Ser Ser Arg Arg Glu Pro Pro Pro Tyr Gly
      35              40              45
```

```
Tyr Arg Lys Gly Trp Ile Pro Arg Leu Leu Glu Asp Phe Gly Asp Gly
      50              55              60
```

```
Gly Ala Phe Pro Glu Ile His Val Ala Gln Tyr Pro Leu Asp Met Gly
```

65		70		75		80
Arg Lys Lys Lys Met Ser Asn Ala Leu Ala Ile Gln Val Asp Ser Glu						
	85		90		95	
Gly Lys Ile Lys Tyr Asp Ala Ile Ala Arg Gln Gly Gln Ser Lys Asp						
	100		105		110	
Lys Val Ile Tyr Ser Lys Tyr Thr Asp Leu Val Pro Lys Glu Val Met						
	115		120		125	
Asn Ala Asp Asp Pro Asp Leu Gln Arg Pro Asp Glu Glu Ala Ile Lys						
	130		135		140	
Glu Ile Thr Glu Lys Thr Arg Val Ala Leu Glu Lys Ser Val Ser Gln						
	145		150		155	
Lys Val Ala Ala Ala Met Pro Val Arg Ala Ala Asp Lys Leu Ala Pro						
	165		170		175	
Ala Gln Tyr Ile Arg Tyr Thr Pro Ser Gln Gln Gly Val Ala Phe Asn						
	180		185		190	
Ser Gly Ala Lys Gln Arg Val Ile Arg Met Val Glu Met Gln Lys Asp						
	195		200		205	
Pro Met Glu Pro Pro Arg Phe Lys Ile Asn Lys Lys Ile Pro Arg Gly						
	210		215		220	
Pro Pro Ser Pro Pro Ala Pro Val Met His Ser Pro Ser Arg Lys Met						
	225		230		235	
Thr Val Lys Glu Gln Gln Glu Trp Lys Ile Pro Pro Cys Ile Ser Asn						
	245		250		255	
Trp Lys Asn Ala Lys Gly Tyr Thr Ile Pro Leu Asp Lys Arg Leu Ala						
	260		265		270	
Ala Asp Gly Arg Gly Leu Gln Thr Val His Ile Asn Glu Asn Phe Ala						
	275		280		285	
Lys Leu Ala Glu Ala Leu Tyr Ile Ala Asp Arg Lys Ala Arg Glu Ala						
	290		295		300	
Val Gly Asn Ala Cys Pro Ser Arg Glu Lys Asn Gly Ser Glu Arg Lys						
	305		310		315	
Gly Lys Thr						

<210> 445

<211> 640

<212> PRT

<213> Homo sapiens

<400> 445

Trp Val Arg Pro Thr Arg Pro Thr Leu Thr Ser Ile Cys Glu Lys Val
1 5 10 15

Ile Val Pro Asn Met Glu Phe Arg Ala Ala Asp Glu Glu Ala Phe Glu
20 25 30

Asp Asn Ser Glu Glu Tyr Ile Arg Arg Asp Leu Glu Gly Ser Asp Ile
35 40 45

Asp Thr Arg Arg Arg Ala Ala Cys Asp Leu Val Arg Gly Leu Cys Lys
50 55 60

Phe Phe Glu Gly Pro Val Thr Gly Ile Phe Ser Gly Tyr Val Asn Ser
65 70 75 80

Met Leu Gln Glu Tyr Ala Lys Asn Pro Ser Val Asn Trp Lys His Lys
85 90 95

Asp Ala Ala Ile Tyr Leu Val Thr Ser Leu Ala Ser Lys Ala Gln Thr
100 105 110

Gln Lys His Gly Ile Thr Gln Ala Asn Glu Leu Val Asn Leu Thr Glu
115 120 125

Phe Phe Val Asn His Ile Leu Pro Asp Leu Lys Ser Ala Asn Val Asn
130 135 140

Glu Phe Pro Val Leu Lys Ala Asp Gly Ile Lys Tyr Ile Met Ile Phe
145 150 155 160

Arg Asn Gln Val Pro Lys Glu His Leu Leu Val Ser Ile Pro Leu Leu
165 170 175

Ile Asn His Leu Gln Ala Glu Ser Ile Val Val His Thr Tyr Ala Ala
180 185 190

His Ala Leu Glu Arg Leu Phe Thr Met Arg Gly Pro Asn Asn Ala Thr
195 200 205

Leu Phe Thr Ala Ala Glu Ile Ala Pro Phe Val Glu Ile Leu Leu Thr
210 215 220

Asn Leu Phe Lys Ala Leu Thr Leu Pro Gly Ser Ser Glu Asn Glu Tyr
225 230 235 240

Ile	Met	Lys	Ala	Ile	Met	Arg	Ser	Phe	Ser	Leu	Leu	Gln	Glu	Ala	Ile	
			245						250			255				
Ile	Pro	Tyr	Ile	Pro	Thr	Leu	Ile	Thr	Gln	Leu	Thr	Gln	Lys	Leu	Leu	
			260						265			270				
Ala	Val	Ser	Lys	Asn	Pro	Ser	Lys	Pro	His	Phe	Asn	His	Tyr	Met	Phe	
			275						280			285				
Glu	Ala	Ile	Cys	Leu	Ser	Ile	Arg	Ile	Thr	Cys	Lys	Ala	Asn	Pro	Ala	
			290						295			300				
Ala	Val	Val	Asn	Phe	Glu	Glu	Ala	Leu	Phe	Leu	Val	Phe	Thr	Glu	Ile	
305						310						315			320	
Leu	Gln	Asn	Asp	Val	Gln	Glu	Phe	Ile	Pro	Tyr	Val	Phe	Gln	Val	Met	
			325						330						335	
Ser	Leu	Leu	Leu	Glu	Thr	His	Lys	Asn	Asp	Ile	Pro	Ser	Ser	Tyr	Met	
			340						345						350	
Ala	Leu	Phe	Pro	His	Leu	Leu	Gln	Pro	Val	Leu	Trp	Glu	Arg	Thr	Gly	
			355						360						365	
Asn	Ile	Pro	Ala	Leu	Val	Arg	Leu	Leu	Gln	Ala	Phe	Leu	Glu	Arg	Gly	
			370						375						380	
Ser	Asn	Thr	Ile	Ala	Ser	Ala	Ala	Ala	Asp	Lys	Ile	Pro	Gly	Leu	Leu	
385						390						395			400	
Gly	Val	Phe	Gln	Lys	Leu	Ile	Ala	Ser	Lys	Ala	Asn	Asp	His	Gln	Gly	
			405						410						415	
Phe	Tyr	Leu	Leu	Asn	Ser	Ile	Ile	Glu	His	Met	Pro	Pro	Glu	Ser	Val	
			420						425						430	
Asp	Gln	Tyr	Arg	Lys	Gln	Ile	Phe	Ile	Leu	Leu	Phe	Gln	Arg	Leu	Gln	
			435						440						445	
Asn	Ser	Lys	Thr	Thr	Lys	Phe	Ile	Lys	Ser	Phe	Leu	Val	Phe	Ile	Asn	
			450						455						460	
Leu	Tyr	Cys	Ile	Lys	Tyr	Gly	Ala	Leu	Ala	Leu	Gln	Glu	Ile	Phe	Asp	
465						470						475			480	
Gly	Ile	Gln	Pro	Lys	Met	Phe	Gly	Met	Val	Leu	Glu	Lys	Ile	Ile	Ile	
			485						490						495	
Pro	Glu	Ile	Gln	Lys	Val	Ser	Gly	Asn	Val	Glu	Lys	Lys	Ile	Cys	Ala	
			500						505						510	

Val Gly Ile Thr Lys Leu Leu Thr Glu Cys Pro Pro Met Met Asp Thr
515 520 525

Glu Tyr Thr Lys Leu Trp Thr Pro Leu Leu Gln Ser Leu Ile Gly Leu
530 535 540

Phe Glu Leu Pro Glu Asp Asp Thr Ile Pro Asp Glu Glu His Phe Ile
545 550 555 560

Asp Ile Glu Asp Thr Pro Gly Tyr Gln Thr Ala Phe Ser Gln Leu Ala
565 570 575

Phe Ala Gly Lys Lys Glu His Asp Pro Val Gly Gln Met Val Asn Asn
580 585 590

Pro Lys Ile His Leu Ala Gln Ser Leu His Lys Leu Ser Thr Ala Cys
595 600 605

Pro Gly Arg Val Pro Ser Met Val Ser Thr Ser Leu Asn Ala Glu Ala
610 615 620

Leu Gln Tyr Leu Gln Gly Tyr Leu Gln Ala Ala Ser Val Thr Leu Leu
625 630 635 640

<210> 446
<211> 157
<212> PRT
<213> Homo sapiens

<400> 446

Leu Glu Val Ala Ile Cys Cys Gln Gly Cys Gly Val Ala Pro Asp Phe
1 5 10 15

Thr Ala Val Pro Gly Thr Trp Thr Pro Arg Leu Gly Val Gly Val Cys
20 25 30

Phe Leu Leu Leu Ala Phe Thr Glu Ala Thr Gly Val Gly Gly Gly Gly
35 40 45

Trp Glu Ser Leu Lys Arg Asp Cys His Gly Ser Phe Pro Thr Arg Ala
50 55 60

Thr Ser Ser His Leu Thr Asp Ala Arg Pro Lys Gly Leu Gln Pro Val
65 70 75 80

Ala Ile Pro Cys Phe Pro Arg Gln Pro Ala Pro Ala Ala Ile Pro Arg
 85 90 95

Glu Val Ala Gln Glu Gly Ala Trp Pro Arg Ile Arg Asn Trp His Thr
 100 105 110

Ala Lys Ser Pro Ala Leu Pro Leu Val Asp Ser Ile Val Leu Glu Trp
 115 120 125

Pro Arg Ser Asp Glu Leu Cys Ala Cys Pro Trp Gln Trp Gln Ala Val
 130 135 140

Ser Tyr Gly His Leu Gly Arg Thr Trp Asn Leu Ala Ser
 145 150 155

<210> 447

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 447

Ala Glu Phe Cys Leu Trp Ala Ser Pro Phe Pro Ala Asn Ser Thr Asp
 1 5 10 15

Pro Val Lys Ala Ala Gln Phe Glu Pro Pro Gly Arg Gln Met Ile Ala
 20 25 30

Ile Arg Lys Arg Gln Xaa Glu Glu Thr Asn Asn Asp Tyr Glu Thr Ala
 35 40 45

Asp Gly Gly Tyr Met Thr Leu Asn Pro Arg Ala Pro Thr Asp Asp Asp
 50 55 60

Lys Asn Ile Tyr Leu Thr Leu Pro Pro Asn Asp His Val Asn Ser Asn
 65 70 75 80

Asn

<210> 448

<211> 340

<212> PRT

<213> Homo sapiens

<400> 448

Cys Val Trp Val Leu Val Cys Arg Pro Ser Gly Pro Gly His Asp Ser
 1 5 10 15

Ile Met Tyr His Asn Ser Ser Gln Lys Arg His Trp Thr Phe Ser Ser
 20 25 30

Glu Glu Gln Leu Ala Arg Leu Arg Ala Asp Ala Asn Arg Lys Phe Arg
 35 40 45

Cys Lys Ala Val Ala Asn Gly Lys Val Leu Pro Asn Asp Pro Val Phe
 50 55 60

Leu Glu Pro His Glu Glu Met Thr Leu Cys Lys Tyr Tyr Glu Lys Arg
 65 70 75 80

Leu Leu Glu Phe Cys Ser Val Phe Lys Pro Ala Met Pro Arg Ser Val
 85 90 95

Val Gly Thr Ala Cys Met Tyr Phe Lys Arg Phe Tyr Leu Asn Asn Ser
 100 105 110

Val Met Glu Tyr His Pro Arg Ile Ile Met Leu Thr Cys Ala Phe Leu
 115 120 125

Ala Cys Lys Val Asp Glu Phe Asn Val Ser Ser Pro Gln Phe Val Gly
 130 135 140

Asn Leu Arg Glu Ser Pro Leu Gly Gln Glu Lys Ala Leu Glu Gln Ile
 145 150 155 160

Leu Glu Tyr Glu Leu Leu Leu Ile Gln Gln Leu Asn Phe His Leu Ile
 165 170 175

Val His Asn Pro Tyr Arg Pro Phe Glu Gly Phe Leu Ile Asp Leu Lys
 180 185 190

Thr Arg Tyr Pro Ile Leu Glu Asn Pro Glu Ile Leu Arg Lys Thr Ala
 195 200 205

Asp Asp Phe Leu Asn Arg Ile Ala Leu Thr Asp Ala Tyr Leu Leu Tyr
 210 215 220

Thr Pro Ser Gln Ile Ala Leu Thr Ala Ile Leu Ser Ser Ala Ser Arg
 225 230 235 240

Ala Gly Ile Thr Met Glu Ser Tyr Leu Ser Glu Ser Leu Met Leu Lys
 245 250 255

Glu Asn Arg Thr Cys Leu Ser Gln Leu Leu Asp Ile Met Lys Ser Met
260 265 270

Arg Asn Leu Val Lys Lys Tyr Glu Pro Pro Arg Ser Glu Glu Val Ala
275 280 285

Val Leu Lys Gln Lys Leu Glu Arg Cys His Ser Ala Glu Leu Ala Leu
290 295 300

Asn Val Ile Thr Lys Lys Arg Lys Gly Tyr Glu Asp Asp Asp Tyr Val
305 310 315 320

Ser Lys Lys Ser Lys His Glu Glu Glu Glu Trp Thr Asp Asp Asp Leu
325 330 335

Val Glu Ser Leu
340

<210> 449

<211> 625

<212> PRT

<213> Homo sapiens

<400> 449

Ala Leu Gly Cys Arg Ser Leu Cys Cys Val Ile Pro Gln Ser His Ala
1 5 10 15

Arg Asp Ser Gly Tyr Leu Phe Val Gly Leu Ser Gly Phe Arg Leu Pro
20 25 30

Asp Gln Ala Pro Ala Pro Ala Leu Gln Arg Arg Leu Tyr Ser Pro Asp
35 40 45

Ala Asp Arg Asp Cys Cys Ser His Gly Pro Val Ser Gly Gly Gln Ser
50 55 60

Ala Gln Leu Val Leu Asp Thr Lys Asp Leu Thr Ile Glu Lys Val Val
65 70 75 80

Ile Asn Gly Gln Glu Val Lys Tyr Ala Leu Gly Glu Arg Gln Ser Tyr
85 90 95

Lys Gly Ser Pro Met Glu Ile Ser Leu Pro Ile Ala Leu Ser Lys Asn
100 105 110

Gln Glu Ile Val Ile Glu Ile Ser Phe Glu Thr Ser Pro Lys Ser Ser
115 120 125

Ala Leu Gln Trp Leu Thr Pro Glu Gln Thr Ser Gly Lys Glu His Pro

130	135	140
Tyr Leu Phe Ser Gln Cys Gln Ala Ile His Cys Arg Ala Ile Leu Pro		
145	150	155 160
Cys Gln Asp Thr Pro Ser Val Lys Leu Thr Tyr Thr Ala Glu Val Ser		
	165	170 175
Val Pro Lys Glu Leu Val Ala Leu Met Ser Ala Ile Arg Asp Gly Glu		
	180	185 190
Thr Pro Asp Pro Glu Asp Pro Ser Arg Lys Ile Tyr Lys Phe Ile Gln		
	195	200 205
Lys Val Pro Ile Pro Cys Tyr Leu Ile Ala Leu Val Val Gly Ala Leu		
	210	215 220
Glu Ser Arg Gln Ile Gly Pro Arg Thr Leu Val Trp Ser Glu Lys Glu		
	225	230 235 240
Gln Val Glu Lys Ser Ala Tyr Glu Phe Ser Glu Thr Glu Ser Met Leu		
	245	250 255
Lys Ile Ala Glu Asp Leu Gly Gly Pro Tyr Val Trp Gly Gln Tyr Asp		
	260	265 270
Leu Leu Val Leu Pro Pro Ser Phe Pro Tyr Gly Gly Met Glu Asn Pro		
	275	280 285
Cys Leu Thr Phe Val Thr Pro Thr Leu Leu Ala Gly Asp Lys Ser Leu		
	290	295 300
Ser Asn Val Ile Ala His Glu Ile Ser His Ser Trp Thr Gly Asn Leu		
	305	310 315 320
Val Thr Asn Lys Thr Trp Asp His Phe Trp Leu Asn Glu Gly His Thr		
	325	330 335
Val Tyr Leu Glu Arg His Ile Cys Gly Arg Leu Phe Gly Glu Lys Phe		
	340	345 350
Arg His Phe Asn Ala Leu Gly Gly Trp Gly Glu Leu Gln Asn Ser Val		
	355	360 365
Lys Thr Phe Gly Glu Thr His Pro Phe Thr Lys Leu Val Val Asp Leu		
	370	375 380
Thr Asp Ile Asp Pro Asp Val Ala Tyr Ser Ser Val Pro Tyr Glu Lys		
	385	390 395 400
Gly Phe Ala Leu Leu Phe Tyr Leu Glu Gln Leu Leu Gly Gly Pro Glu		

	405		410		415
Ile Phe Leu Gly Phe Leu Lys Ala Tyr Val Glu Lys Phe Ser Tyr Lys					
	420		425		430
Ser Ile Thr Thr Asp Asp Trp Lys Asp Phe Leu Tyr Ser Tyr Phe Lys					
	435		440		445
Asp Lys Val Asp Val Leu Asn Gln Val Asp Trp Asn Ala Trp Leu Tyr					
	450		455		460
Ser Pro Gly Leu Pro Pro Ile Lys Pro Asn Tyr Asp Met Thr Leu Thr					
	465		470		475
Asn Ala Cys Ile Ala Leu Ser Gln Arg Trp Ile Thr Ala Lys Glu Asp					
	485		490		495
Asp Leu Asn Ser Phe Asn Ala Thr Asp Leu Lys Asp Leu Ser Ser His					
	500		505		510
Gln Leu Asn Glu Phe Leu Ala Gln Thr Leu Gln Arg Ala Pro Leu Pro					
	515		520		525
Leu Gly His Ile Lys Arg Met Gln Glu Val Tyr Asn Phe Asn Ala Ile					
	530		535		540
Asn Asn Ser Glu Ile Arg Phe Arg Trp Leu Arg Leu Cys Ile Gln Ser					
	545		550		555
Lys Trp Glu Asp Ala Ile Pro Leu Ala Leu Lys Met Ala Thr Glu Gln					
	565		570		575
Gly Arg Met Lys Phe Thr Arg Pro Leu Phe Lys Asp Leu Ala Ala Phe					
	580		585		590
Asp Lys Ser His Asp Gln Ala Val Arg Thr Tyr Gln Glu His Lys Ala					
	595		600		605
Ser Met His Pro Val Thr Ala Met Leu Val Gly Lys Asp Leu Lys Val					
	610		615		620

Asp
625

<210> 450

<211> 95

<212> PRT

<213> Homo sapiens

<400> 450

Asp Gly Ala Leu Leu Ile Pro His Leu Val Gln Phe Leu His Leu Gln
 1 5 10 15

Met Ala Ala Val Arg Ser Trp Gly Arg Arg Thr Leu Gln Ser His Thr
 20 25 30

Lys Cys Leu Pro Pro Gly Pro Leu Ser Ser Leu Ser Ala Thr Gln Cys
 35 40 45

His Gln Asp Glu Gln Ser Trp Pro Ser Ile Met Thr Glu Arg Gly Arg
 50 55 60

Leu Arg Gly Ser Pro Asp Cys Ala Glu Leu Arg Thr Gln Trp Arg Phe
 65 70 75 80

Ser Gly Thr Leu Arg Ser Leu Trp Gln Ala Trp Ser Gly Ser Pro
 85 90 95

<210> 451

<211> 147

<212> PRT

<213> Homo sapiens

<400> 451

Ser Ser Pro Val Asn Ala Thr Ala Phe Ala Ser Cys Leu Cys Ala Val
 1 5 10 15

Cys Asp Val Thr Gly Leu Phe Cys Lys His Gln His Val Gly Lys Leu
 20 25 30

Gly Ser Asn Leu Cys Ala Phe Val Phe Pro Met Gly Arg Asp Ser Gly
 35 40 45

Ser Arg Val Pro Leu Cys Ile Cys Phe Phe Val Leu Ala Glu Ile Leu
 50 55 60

Leu Glu Val Gly Arg Phe Ser Gln Gly Phe Ile Arg Leu Met Ser Ile
 65 70 75 80

Ser Val Leu Pro Ser Ser Lys Pro His Leu Leu Asn Gly Lys Gly Arg
 85 90 95

Trp Met Ala Pro Ala Gln Leu Asp Leu Arg Leu Trp Ser Gln Arg Arg
 100 105 110

Cys Gly Ala Glu Ala Tyr Pro Ala Asp Thr Leu Asp Ile Leu Leu Pro
 115 120 125

Pro Gly Cys Arg Gly Gln Arg Pro Pro Ala Gln Gly Ser Cys Thr Tyr
 130 135 140

Leu Leu Ile
 145

<210> 452
 <211> 487
 <212> PRT
 <213> Homo sapiens

<400> 452
 Asp Leu Glu Arg Ser Tyr Leu Leu Lys Ile Asn Gly Lys Val Ala Glu
 1 5 10 15

Arg Pro Gln His Met Leu Met Arg Val Ser Val Gly Ile His Lys Glu
 20 25 30

Asp Ile Asp Ala Ala Ile Glu Thr Tyr Asn Leu Leu Ser Glu Arg Trp
 35 40 45

Phe Thr His Ala Ser Pro Thr Leu Phe Asn Ala Gly Thr Asn Arg Pro
 50 55 60

Gln Leu Ser Ser Cys Phe Leu Leu Ser Met Lys Asp Asp Ser Ile Glu
 65 70 75 80

Gly Ile Tyr Asp Thr Leu Lys Gln Cys Ala Leu Ile Ser Lys Ser Ala
 85 90 95

Gly Gly Ile Gly Val Ala Val Ser Cys Ile Arg Ala Thr Gly Ser Tyr
 100 105 110

Ile Ala Gly Thr Asn Gly Asn Ser Asn Gly Leu Val Pro Met Leu Arg
 115 120 125

Val Tyr Asn Asn Thr Ala Arg Tyr Val Asp Gln Gly Gly Asn Lys Arg
 130 135 140

Pro Gly Ala Phe Ala Ile Tyr Leu Glu Pro Trp His Leu Asp Ile Phe
 145 150 155 160

Glu Phe Leu Asp Leu Lys Lys Asn Thr Gly Lys Glu Glu Gln Arg Ala
 165 170 175

Arg Asp Leu Phe Phe Ala Leu Trp Ile Pro Asp Leu Phe Met Lys Arg
 180 185 190

Val Glu Thr Asn Gln Asp Trp Ser Leu Met Cys Pro Asn Glu Cys Pro

195					200					205					
Gly	Leu	Asp	Glu	Val	Trp	Gly	Glu	Glu	Phe	Glu	Lys	Leu	Tyr	Ala	Ser
210						215					220				
Tyr	Glu	Lys	Gln	Gly	Arg	Val	Arg	Lys	Val	Val	Lys	Ala	Gln	Gln	Leu
225					230					235					240
Trp	Tyr	Ala	Ile	Ile	Glu	Ser	Gln	Thr	Glu	Thr	Gly	Thr	Pro	Tyr	Met
			245						250					255	
Leu	Tyr	Lys	Asp	Ser	Cys	Asn	Arg	Lys	Ser	Asn	Gln	Gln	Asn	Leu	Gly
			260					265					270		
Thr	Ile	Lys	Cys	Ser	Asn	Leu	Cys	Thr	Glu	Ile	Val	Glu	Tyr	Thr	Ser
	275						280					285			
Lys	Asp	Glu	Val	Ala	Val	Cys	Asn	Leu	Ala	Ser	Leu	Ala	Leu	Asn	Met
290						295					300				
Tyr	Val	Thr	Ser	Glu	His	Thr	Tyr	Asp	Phe	Lys	Lys	Leu	Ala	Glu	Val
305					310					315					320
Thr	Lys	Val	Val	Val	Arg	Asn	Leu	Asn	Lys	Ile	Ile	Asp	Ile	Asn	Tyr
			325						330					335	
Tyr	Pro	Val	Pro	Glu	Ala	Cys	Leu	Ser	Asn	Lys	Arg	His	Arg	Pro	Ile
			340					345					350		
Gly	Ile	Gly	Val	Gln	Gly	Leu	Ala	Asp	Ala	Phe	Ile	Leu	Met	Arg	Tyr
	355					360						365			
Pro	Phe	Glu	Ser	Ala	Glu	Ala	Gln	Leu	Leu	Asn	Lys	Gln	Ile	Phe	Glu
	370					375					380				
Thr	Ile	Tyr	Tyr	Gly	Ala	Leu	Glu	Ala	Ser	Cys	Asp	Leu	Ala	Lys	Glu
385					390					395					400
Gln	Gly	Pro	Tyr	Glu	Thr	Tyr	Glu	Gly	Ser	Pro	Val	Ser	Lys	Gly	Ile
			405					410						415	
Leu	Gln	Tyr	Asp	Met	Trp	Asn	Val	Thr	Pro	Thr	Asp	Leu	Trp	Asp	Trp
			420					425				430			
Lys	Val	Leu	Lys	Glu	Lys	Ile	Ala	Lys	Tyr	Gly	Ile	Arg	Asn	Ser	Leu
	435					440						445			
Leu	Ile	Ala	Pro	Met	Pro	Thr	Ala	Ser	Thr	Ala	Gln	Ile	Leu	Gly	Asn
	450					455					460				
Asn	Glu	Ser	Ile	Glu	Pro	Tyr	Thr	Ser	Asn	Ile	Tyr	Thr	Arg	Arg	Ser

465 470 475 480

Cys Gln Glu Asn Phe Arg Leu
485

```
<210> 453
<211> 330
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (213)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 453
Glu Glu Val Pro Leu Ala Gln Pro Glu Ser Lys Arg Asp Ile Leu Phe
1 5 10 15

Leu Phe Asp Gly Ser Ala Asn Leu Val Gly Gln Phe Pro Val Val Arg
20 25 30

Asp Phe Leu Tyr Lys Ile Ile Asp Glu Leu Asn Val Lys Pro Glu Gly
35 40 45

Thr Arg Ile Ala Val Ala Gln Tyr Ser Asp Asp Val Lys Val Glu Ser
50 55 60

Arg Phe Asp Glu His Gln Ser Lys Pro Glu Ile Leu Asn Leu Val Lys
65 70 75 80

Arg Met Lys Ile Lys Thr Gly Lys Ala Leu Asn Leu Gly Tyr Ala Leu
85 90 95

Asp Tyr Ala Gln Arg Tyr Ile Phe Val Lys Ser Ala Gly Ser Arg Ile
100 105 110

Glu Asp Gly Val Leu Gln Phe Leu Val Leu Leu Val Ala Gly Arg Ser
115 120 125

Ser Asp Arg Val Asp Gly Pro Ala Ser Asn Leu Lys Gln Ser Gly Val
130 135 140

Val	Pro	Phe	Ile	Phe	Gln	Ala	Lys	Asn	Ala	Asp	Pro	Ala	Glu	Leu	Glu
145					150					155					160

Gln Ile Val Leu Ser Pro Ala Phe Ile Leu Ala Ala Glu Ser Leu Pro
165 170 175

Lys Ile Gly Asp Leu His Pro Gln Ile Val Asn Leu Leu Lys Ser Val
 180 185 190
 His Asn Gly Ala Pro Ala Pro Val Ser Gly Glu Lys Asp Val Val Phe
 195 200 205
 Leu Leu Asp Gly Xaa Glu Gly Val Arg Ser Gly Phe Pro Leu Leu Lys
 210 215 220
 Glu Phe Val Gln Arg Val Val Glu Ser Leu Asp Val Gly Gln Asp Arg
 225 230 235 240
 Val Arg Val Ala Val Val Gln Tyr Ser Asp Arg Thr Arg Pro Glu Phe
 245 250 255
 Tyr Leu Asn Ser Tyr Met Asn Lys Gln Asp Val Val Asn Ala Val Arg
 260 265 270
 Gln Leu Thr Leu Leu Gly Gly Pro Thr Pro Asn Thr Gly Ala Ala Leu
 275 280 285
 Glu Phe Val Leu Arg Asn Ile Leu Val Ser Ser Ala Gly Ser Arg Ile
 290 295 300
 Thr Glu Gly Val Pro Gln Leu Leu Ile Val Leu Thr Ala Asp Ser Leu
 305 310 315 320
 Gly Met Met Cys Gly Thr Pro Pro Trp Ser
 325 330

<210> 454

<211> 280

<212> PRT

<213> Homo sapiens

<400> 454

Leu Glu Phe Arg Ser Gly Lys Val Ala Phe Arg Asp Cys Glu Gly Arg
 1 5 10 15
 Tyr Leu Ala Pro Ser Gly Pro Ser Gly Thr Leu Lys Ala Gly Lys Ala
 20 25 30
 Thr Lys Val Gly Lys Asp Glu Leu Phe Ala Leu Glu Gln Ser Cys Ala
 35 40 45
 Gln Val Val Leu Gln Ala Ala Asn Glu Arg Asn Val Ser Thr Arg Gln
 50 55 60
 Gly Met Asp Leu Ser Ala Asn Gln Asp Glu Glu Thr Asp Gln Glu Thr

65		70		75		80									
Phe	Gln	Leu	Glu	Ile	Asp	Arg	Asp	Thr	Lys	Lys	Cys	Ala	Phe	Arg	Thr
				85					90					95	
His	Thr	Gly	Lys	Tyr	Trp	Thr	Leu	Thr	Ala	Thr	Gly	Gly	Val	Gln	Ser
			100					105					110		
Thr	Ala	Ser	Ser	Lys	Asn	Ala	Ser	Cys	Tyr	Phe	Asp	Ile	Glu	Trp	Arg
		115					120					125			
Asp	Arg	Arg	Ile	Thr	Leu	Arg	Ala	Ser	Asn	Gly	Lys	Phe	Val	Thr	Ser
	130					135					140				
Lys	Lys	Asn	Gly	Gln	Leu	Ala	Ala	Ser	Val	Glu	Thr	Ala	Gly	Asp	Ser
145					150					155				160	
Glu	Leu	Phe	Leu	Met	Lys	Leu	Ile	Asn	Arg	Pro	Ile	Ile	Val	Phe	Arg
			165					170					175		
Gly	Glu	His	Gly	Phe	Ile	Gly	Cys	Arg	Lys	Val	Thr	Gly	Thr	Leu	Asp
		180					185					190			
Ala	Asn	Arg	Ser	Ser	Tyr	Asp	Val	Phe	Gln	Leu	Glu	Phe	Asn	Asp	Gly
	195					200					205				
Ala	Tyr	Asn	Ile	Lys	Asp	Ser	Thr	Gly	Lys	Tyr	Trp	Thr	Val	Gly	Ser
210					215						220				
Asp	Ser	Ala	Val	Thr	Ser	Ser	Gly	Asp	Thr	Pro	Val	Asp	Phe	Phe	Phe
225				230					235				240		
Glu	Phe	Cys	Asp	Tyr	Asn	Lys	Val	Ala	Ile	Lys	Val	Gly	Gly	Arg	Tyr
			245				250					255			
Leu	Lys	Gly	Asp	His	Ala	Gly	Val	Leu	Lys	Ala	Ser	Ala	Glu	Thr	Val
		260					265					270			
Asp	Pro	Ala	Ser	Leu	Trp	Glu	Tyr								
	275					280									

<210> 455

<211> 255

<212> PRT

<213> Homo sapiens

<400> 455

Asn	Ser	Arg	Val	Asp	Pro	Arg	Val	Arg	Thr	Ala	Leu	Gln	Ile	Phe	Gln
1				5					10					15	

Arg Ile Pro Arg Trp Pro His Val Ala Gln Trp Asn Arg Ser Ser Ala
 20 25 30
 Thr Pro Ala Gly Val Arg Gly Gly Arg Ala Ala Ala Thr Phe Arg Ala
 35 40 45
 Asn Asp His Gln His Ile Arg Tyr Asn Pro Leu Gln Asp Glu Trp Val
 50 55 60
 Leu Val Ser Ala His Arg Met Lys Arg Pro Trp Gln Gly Gln Val Glu
 65 70 75 80
 Pro Gln Leu Leu Lys Thr Val Pro Arg His Asp Pro Leu Asn Pro Leu
 85 90 95
 Cys Pro Gly Ala Ile Arg Ala Asn Gly Glu Val Asn Pro Gln Tyr Asp
 100 105 110
 Ser Thr Phe Leu Phe Asp Asn Asp Phe Pro Ala Leu Gln Pro Asp Ala
 115 120 125
 Pro Ser Pro Gly Pro Ser Asp His Pro Leu Phe Gln Ala Lys Ser Ala
 130 135 140
 Arg Gly Val Cys Lys Val Met Cys Phe His Pro Trp Ser Asp Val Thr
 145 150 155 160
 Leu Pro Leu Met Ser Val Pro Glu Ile Arg Ala Val Val Asp Ala Trp
 165 170 175
 Ala Ser Val Thr Glu Glu Leu Gly Ala Gln Tyr Pro Trp Val Gln Ile
 180 185 190
 Phe Glu Asn Lys Gly Ala Met Met Gly Cys Ser Asn Pro His Pro His
 195 200 205
 Cys Gln Val Trp Ala Ser Ser Phe Leu Pro Asp Ile Ala Gln Arg Glu
 210 215 220
 Glu Arg Ser Gln Gln Ala Tyr Lys Ser Gln His Gly Glu Pro Leu Leu
 225 230 235 240
 Met Glu Tyr Ser Arg Gln Ser Tyr Ser Gly Arg Asn Val Trp Ser
 245 250 255

<210> 456

<211> 278

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 456

Ser Pro Gln Trp Pro Leu Cys Ala Xaa Lys Ser Val Arg Val Pro Asn
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Leu Pro Ile Ser Thr Val Arg Glu Val
20 25 30

Ala Leu Leu Arg Arg Leu Glu Ala Phe Glu His Pro Asn Val Val Arg
35 40 45

Leu Met Asp Val Cys Ala Thr Ser Arg Thr Asp Arg Glu Ile Lys Val
50 55 60

Thr Leu Val Phe Glu His Val Asp Gln Asp Leu Arg Thr Tyr Leu Asp
65 70 75 80

Lys Ala Pro Pro Pro Gly Leu Pro Ala Glu Thr Ile Lys Asp Leu Met
85 90 95

Arg Gln Phe Leu Arg Gly Leu Asp Phe Leu His Ala Asn Cys Ile Val
100 105 110

His Arg Asp Leu Lys Pro Glu Asn Ile Leu Val Thr Ser Gly Gly Thr
115 120 125

Val Lys Leu Ala Asp Phe Gly Leu Ala Arg Ile Tyr Ser Tyr Gln Met
130 135 140

Ala Leu Thr Pro Val Val Val Thr Leu Trp Tyr Arg Ala Pro Glu Val
145 150 155 160

Leu Leu Gln Ser Thr Tyr Ala Thr Pro Val Asp Met Trp Ser Val Gly
165 170 175

Cys Ile Phe Ala Glu Met Phe Arg Arg Lys Pro Leu Phe Cys Gly Asn
180 185 190

Ser Glu Ala Asp Gln Leu Gly Lys Ile Phe Asp Leu Ile Gly Leu Pro
195 200 205

Pro Glu Asp Asp Trp Pro Arg Asp Val Ser Leu Pro Arg Gly Ala Phe
210 215 220

Pro Pro Arg Gly Pro Arg Pro Val Gln Ser Val Val Pro Glu Met Glu

225 230 235 240
Glu Ser Gly Ala Gln Leu Leu Leu Glu Met Leu Thr Phe Asn Pro His
 245 250 255
Lys Arg Ile Ser Ala Phe Arg Ala Leu Gln His Ser Tyr Leu His Lys
 260 265 270
Asp Glu Gly Asn Pro Glu
 275

<210> 457
<211> 35
<212> PRT
<213> Homo sapiens

<400> 457
His Pro Gly Arg Glu Gln Gln Arg Ala Gly His Thr Thr Cys Gln Ala
 1 5 10 15
Leu Gly Val Cys Gly Thr Met Ser Ser Pro Leu Gln Cys Ile His Ser
 20 25 30
Pro Asp Leu
 35

<210> 458
<211> 154
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 458

Arg Tyr Ser Val Ile Leu Leu Asp Thr Leu Leu Gly Arg Met Leu Pro
1 5 10 15

Gln Leu Val Cys Arg Leu Val Leu Arg Cys Ser Met Asp Asp Ser Ala
20 25 30

Gly Pro Arg Glu Trp Leu Pro Arg Asp Ser Glu Cys His Leu Cys Met
35 40 45

Ser Val Thr Thr Gln Ala Gly Asn Ser Ser Glu Gln Ala Ile Pro Gln
50 55 60

Ala Met Leu Gln Ala Cys Val Gly Ser Trp Leu Asp Arg Glu Lys Cys
65 70 75 80

Lys Gln Phe Val Glu Gln His Thr Pro Gln Leu Leu Thr Leu Val Pro
85 90 95

Arg Gly Trp Asp Ala His Thr Thr Cys Gln Ala Ser Gly Cys Xaa Gly
100 105 110

Pro Cys Pro Ala Leu Ser Ser Val Ser Xaa Ala Pro Thr Phe Asp Glu
115 120 125

Asn Ser Xaa Xaa Gln Ala Gly His Thr His Ser Pro Ser Leu Ala Leu
130 135 140

Ile Leu Leu Ser Cys Lys Gly Lys Ala Lys
145 150

<210> 459

<211> 396

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (370)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (395)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 459

Arg Val Ile Gly Ser Thr Val Xaa Arg Gly Leu Arg Pro Ser Cys Pro
 1 5 10 15

Asn Ser Gln Ser Pro Val Lys Val Glu Glu Thr Cys Gly Cys Arg Trp
 20 25 30

Thr Cys Pro Cys Val Cys Thr Gly Ser Ser Thr Arg His Ile Val Thr
 35 40 45

Phe Asp Gly Gln Asn Phe Lys Leu Thr Gly Ser Cys Ser Tyr Val Leu
 50 55 60

Phe Gln Asn Lys Glu Gln Asp Leu Glu Val Ile Leu His Asn Gly Ala
 65 70 75 80

Cys Ser Pro Gly Ala Arg Gln Gly Cys Met Lys Ser Ile Glu Val Lys
 85 90 95

His Ser Ala Leu Ser Val Glu Leu His Ser Asp Met Glu Val Thr Val
 100 105 110

Asn Gly Arg Leu Val Ser Val Pro Tyr Val Gly Gly Asn Met Glu Val
 115 120 125

Asn Val Tyr Gly Ala Ile Met His Glu Val Arg Phe Asn His Leu Gly
 130 135 140

His Ile Phe Thr Phe Thr Pro Gln Asn Asn Glu Phe Gln Leu Gln Leu
 145 150 155 160

Ser Pro Lys Thr Phe Ala Ser Lys Thr Tyr Gly Leu Cys Gly Ile Cys
 165 170 175

Asp Glu Asn Gly Ala Asn Asp Phe Met Leu Arg Asp Gly Thr Val Thr
 180 185 190

Thr Asp Trp Lys Thr Leu Val Gln Glu Trp Thr Val Gln Arg Pro Gly
 195 200 205

Gln Thr Cys Gln Pro Ile Leu Glu Glu Gln Cys Leu Val Pro Asp Ser
 210 215 220

Ser His Cys Gln Val Leu Leu Leu Pro Leu Phe Ala Glu Cys His Lys
 225 230 235 240

Val Leu Ala Pro Ala Thr Phe Tyr Ala Ile Cys Gln Gln Asp Ser Cys
245 250 255

His Gln Glu Gln Val Cys Glu Val Ile Ala Ser Tyr Ala His Leu Cys
260 265 270

Arg Thr Asn Gly Val Cys Val Asp Trp Arg Thr Pro Asp Phe Cys Ala
275 280 285

Met Ser Cys Pro Pro Ser Leu Val Tyr Asn His Cys Glu His Gly Cys
290 295 300

Pro Arg His Cys Asp Gly Asn Val Ser Ser Cys Gly Asp His Pro Ser
305 310 315 320

Glu Ala Val Ser Ala Leu Gln Ile Lys Ser Cys Trp Lys Ala Ala Val
325 330 335

Ser Leu Lys Arg Pro Ala Leu Ser Ala Leu Val Arg Met Glu Ser Ser
340 345 350

Thr Ser Ser Trp Lys Pro Gly Ser Arg Thr Thr Ser Pro Val Arg Ser
355 360 365

Ala Xaa Ala Ser Ala Gly Gly Arg Ser Thr Ala Gln Arg Ser Pro Ala
370 375 380

Pro Arg Pro Lys Leu Pro Arg Val Ala Cys Xaa Lys
385 390 395

<210> 460

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 460

Glu Gln Leu Thr Gly Ser Arg Ala Lys Ser Val Gly Ser Trp Arg Arg
1 5 10 15

Ser Ser Gln Ser Val Lys Lys Pro Thr Glu Gly Lys Ser Arg Glu Glu
20 25 30

Glu Lys Lys Gln Lys Phe Trp His Leu Phe Pro Gly Cys Ala Lys Met
35 40 45

Gly Asp Trp Ser Phe Leu Gly Asn Phe Leu Glu Glu Val His Lys His
50 55 60

Ser Thr Val Val Gly Lys Val Trp Leu Thr Val Leu Phe Ile Phe Arg
65 70 75 80

Met Leu Val Leu Gly Thr Ala Ala Glu Ser Ser Trp Gly Asp Glu Gln
85 90 95

Ala Asp Phe Arg Cys Asp Thr Ile Gln Pro Gly Cys Gln Asn Val Xaa
100 105 110

Xaa Asp Gln Ala Phe Pro Xaa Phe Pro His Xaa Leu
115 120

<210> 461

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 461

Pro Ala Arg Trp Leu Leu Ser Thr Thr Met Ala Ser Thr Glu Gly Thr
1 5 10 15

Cys Cys Pro Val Asn Trp Val Glu His Gln Asp Ser Cys Tyr Trp Phe
20 25 30

Ser His Ser Gly Met Ser Trp Ala Glu Ala Glu Lys Tyr Cys Gln Leu
 35 40 45

Lys Asn Ala His Leu Val Val Ile Lys Ser Arg Glu Glu Gln Val Arg
 50 55 60

Ala Ser Trp Tyr Ser Val Pro Lys Thr Cys Xaa Ile
 65 70 75

<210> 462
 <211> 138
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (66)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (123)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (128)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 462
 Leu Gly Pro Asn Lys Lys Lys Pro Ala Met Leu Leu Phe Leu Leu Ser
 1 5 10 15

Ala Leu Val Leu Leu Thr Gln Pro Leu Gly Tyr Leu Glu Ala Glu Met
 20 25 30

Lys Thr Tyr Ser His Arg Thr Met Pro Ser Ala Cys Thr Leu Val Met
 35 40 45

Cys Ser Ser Val Glu Ser Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly
 50 55 60

Arg Xaa Gly Pro Arg Gly Glu Lys Gly Asp Pro Gly Leu Pro Gly Ala
 65 70 75 80

Ala Gly Gln Ala Gly Met Pro Gly Gln Ala Gly Pro Val Gly Pro Lys
 85 90 95

Gly Asp Asn Gly Ser Val Gly Glu Pro Gly Pro Lys Gly Asp Thr Trp

100	105	110
Ala Lys Leu Asp Leu Gln Glu Leu Pro Val Xaa Leu Val Gln Leu Xaa		
115	120	125
Glu Lys Val Pro Trp Gly Ser Lys Gly Thr		
130	135	
<210> 463		
<211> 246		
<212> PRT		
<213> Homo sapiens		
<400> 463		
Gly Arg Gly Leu Arg Gly Pro Gly Asp Ser Arg Pro Arg His Leu Pro		
1	5	10 15
Val Ala Cys His Leu Leu Arg Leu Arg Thr Pro His Leu Asp Arg Ala		
20	25	30
Leu Pro Arg Arg Leu Pro Ser Gln Asp Tyr Thr Gly Gly Met Gly Ile		
35	40	45
Val Asn Gly Ala Lys Trp Asn Pro Arg Thr Gly Thr Ile Asn Asp Phe		
50	55	60
Ser Tyr Leu His Thr Asn Cys Leu Glu Leu Ser Phe Tyr Leu Gly Cys		
65	70	75 80
Asp Lys Phe Pro His Glu Ser Glu Leu Pro Arg Glu Trp Glu Asn Asn		
85	90	95
Lys Glu Ala Leu Leu Thr Phe Met Glu Gln Val His Arg Gly Ile Lys		
100	105	110
Gly Val Val Thr Asp Glu Gln Gly Ile Pro Ile Ala Asn Ala Thr Ile		
115	120	125
Ser Val Ser Gly Ile Asn His Gly Val Lys Thr Ala Ser Gly Gly Asp		
130	135	140
Tyr Trp Arg Ile Leu Asn Pro Gly Glu Tyr Arg Val Thr Ala His Ala		
145	150	155 160
Arg Gly Tyr Thr Pro Ser Ala Lys Thr Cys Asn Val Asp Tyr Asp Ile		
165	170	175
Gly Ala Thr Gln Cys Asn Phe Ile Leu Ala Arg Ser Asn Trp Lys Arg		
180	185	190

Ile Arg Glu Ile Met Ala Met Asn Gly Asn Arg Pro Ile Pro His Ile
 195 200 205

Asp Pro Ser Arg Pro Met Thr Pro Gln Gln Arg Arg Leu Gln Gln Arg
 210 215 220

Arg Leu Gln His Arg Leu Arg Phe Gly His Arg Cys Gly Cys Gly Ala
 225 230 235 240

Ser Thr Pro Pro Pro Pro
 245

<210> 464
 <211> 232
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (223)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (225)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 464
 Arg Asp Arg Ser Cys Arg Gly Pro Gly Arg Arg Ser Pro Ile Pro Ser
 1 5 10 15

Pro Gln Val Leu Gly Thr Thr Trp Val Pro Arg Ala Gly Glu Met Val
 20 25 30

Cys Gly Gly Phe Ala Cys Ser Lys Asn Ala Leu Cys Ala Leu Asn Val
 35 40 45

Val Tyr Met Leu Val Ser Leu Leu Leu Ile Gly Val Ala Ala Trp Gly
 50 55 60

Lys Gly Leu Gly Leu Val Ser Ser Ile His Ile Ile Gly Gly Val Ile
 65 70 75 80

Ala Val Gly Val Phe Leu Leu Leu Ile Ala Val Ala Gly Leu Val Gly
 85 90 95

Ala Val Asn His His Gln Val Leu Leu Phe Phe Tyr Met Ile Ile Leu
 100 105 110

Gly Leu Val Phe Ile Phe Gln Phe Val Ile Ser Cys Ser Cys Leu Ala
 115 120 125
 Ile Asn Arg Ser Lys Gln Thr Asp Val Ile Asn Ala Ser Trp Trp Val
 130 135 140
 Met Ser Asn Lys Thr Arg Asp Glu Leu Glu Arg Ser Phe Asp Cys Cys
 145 150 155 160
 Gly Leu Phe Asn Leu Thr Thr Leu Tyr Gln Gln Asp Tyr Asp Phe Cys
 165 170 175
 Thr Ala Ile Cys Lys Ser Gln Ser Pro Thr Cys Gln Met Cys Gly Glu
 180 185 190
 Lys Phe Leu Lys His Ser Asp Glu Ala Leu Lys Ile Leu Gly Gly Val
 195 200 205
 Gly Leu Phe Phe Ser Phe Thr Glu Ile Leu Gly Val Trp Leu Xaa Met
 210 215 220
 Xaa Phe Arg Asn Gln Lys Gly Ser
 225 230

<210> 465
 <211> 215
 <212> PRT
 <213> Homo sapiens

<400> 465
 Gly Leu Ala Pro Pro Arg Ser Arg Thr Met Ala Val Lys Lys Ile Ala
 1 5 10 15
 Ile Phe Gly Ala Thr Gly Gln Thr Gly Leu Thr Thr Leu Ala Gln Ala
 20 25 30
 Val Gln Ala Gly Tyr Glu Val Thr Val Leu Val Arg Asp Ser Ser Arg
 35 40 45
 Leu Pro Ser Glu Gly Pro Arg Pro Ala His Val Val Val Gly Asp Val
 50 55 60
 Leu Gln Ala Ala Asp Val Asp Lys Thr Val Ala Gly Gln Asp Ala Val
 65 70 75 80
 Ile Val Leu Leu Gly Thr Arg Asn Asp Leu Ser Pro Thr Thr Val Met
 85 90 95

Ser Glu Gly Ala Arg Asn Ile Val Ala Ala Met Lys Ala His Gly Val
 100 105 110

Asp Lys Val Val Ala Cys Thr Ser Ala Phe Leu Leu Trp Asp Pro Thr
 115 120 125

Lys Val Pro Pro Arg Leu Gln Ala Val Thr Asp Asp His Ile Arg Met
 130 135 140

His Lys Val Leu Arg Glu Ser Gly Leu Lys Tyr Val Ala Val Met Pro
 145 150 155 160

Pro His Ile Gly Asp Gln Pro Leu Thr Gly Ala Tyr Thr Val Thr Leu
 165 170 175

Asp Gly Arg Gly Pro Ser Arg Val Ile Ser Lys His Asp Leu Gly His
 180 185 190

Phe Met Leu Arg Cys Leu Thr Thr Asp Glu Tyr Asp Gly His Ser Thr
 195 200 205

Tyr Pro Ser His Gln Tyr Gln
 210 215

<210> 466

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 466

Arg Thr Thr Ala Val Glu Leu Phe Val Lys Ala Gly Ser Asp Gly Ala
 1 5 10 15

Lys Ile Gly Asn Cys Pro Phe Ser Gln Arg Leu Phe Met Val Leu Trp

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                20                25                30
Leu Lys Gly Val Thr Phe Asn Val Thr Thr Val Asp Thr Lys Arg Arg
      35                40                45
Thr Glu Thr Val Gln Lys Leu Cys Pro Gly Gly Gln Leu Pro Phe Leu
      50                55                60
Leu Tyr Gly Thr Glu Val His Thr Asp Thr Asn Lys Ile Glu Glu Phe
      65                70                75                80
Leu Glu Ala Val Leu Cys Pro Pro Arg Tyr Pro Lys Leu Ala Xaa Leu
      85                90                95
Xaa Pro Glu Ser Asn Thr Xaa Gly Leu Asp Ile Phe Ala Lys Phe Ser
      100                105                110
Ala Tyr Ile Lys Asn Ser Lys Pro Ser Thr Gln Leu Thr Ile Trp Arg
      115                120                125
Arg Asp Ser
      130

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<210> 467

<211> 211

<212> PRT

<213> Homo sapiens

<400> 467

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Gly Leu Trp Ile Ser Met Leu Cys Arg Trp Leu Met Trp Met Val Met
  1                5                10                15
Asn Tyr Ser Trp Lys Lys Asn Arg Met Trp Arg Lys Asn Arg Ser Phe
      20                25                30
Tyr Ala Asn Asn His Cys Ile Gly Thr Asp Leu Asn Arg Asn Phe Ala
      35                40                45
Ser Lys His Trp Cys Glu Glu Gly Ala Ser Ser Ser Ser Cys Ser Glu
      50                55                60
Thr Tyr Cys Gly Leu Tyr Pro Glu Ser Glu Pro Glu Val Lys Ala Val
      65                70                75                80
Ala Ser Phe Leu Arg Arg Asn Ile Asn Gln Ile Lys Ala Tyr Ile Ser
      85                90                95
Met His Ser Tyr Ser Gln His Ile Val Phe Pro Tyr Ser Tyr Thr Arg
      100                105                110

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Ser Lys Ser Lys Asp His Glu Glu Leu Ser Leu Val Ala Ser Glu Ala
115 120 125

Val Arg Ala Ile Glu Lys Thr Ser Lys Asn Thr Arg Tyr Thr His Gly
130 135 140

His Gly Ser Glu Thr Leu Tyr Leu Ala Pro Gly Gly Gly Asp Asp Trp
145 150 155 160

Ile Tyr Asp Leu Gly Ile Lys Tyr Ser Phe Thr Ile Glu Leu Arg Asp
165 170 175

Thr Gly Thr Tyr Gly Phe Leu Leu Pro Glu Arg Tyr Ile Lys Pro Thr
180 185 190

Cys Arg Glu Ala Phe Ala Ala Val Ser Lys Ile Ala Trp His Val Ile
195 200 205

Arg Asn Val
210

<210> 468

<211> 159

<212> PRT

<213> Homo sapiens

<400> 468

Leu Pro Ser Leu Lys Gly Thr Lys Ala Gly Ala Pro Pro Arg Cys Gly
1 5 10 15

Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser
20 25 30

Phe Lys Val Thr Ser Arg Thr Gly Thr Leu Ala Ala Gln Ala Leu Arg
35 40 45

Ala Arg Gly Pro Ser Gly Ala Ala Ala Met Arg Ser Met Ala Ser Gly
50 55 60

Gly Gly Val Pro Thr Asp Glu Glu Gln Ala Thr Gly Leu Glu Arg Glu
65 70 75 80

Ile Met Leu Ala Ala Lys Lys Gly Leu Asp Pro Tyr Asn Val Leu Ala
85 90 95

Pro Lys Gly Ala Ser Gly Thr Arg Glu Asp Pro Asn Leu Val Pro Ser
100 105 110

Ile Ser Asn Lys Arg Ile Val Gly Cys Ile Cys Glu Glu Asp Asn Thr
 115 120 125

Ser Val Val Trp Phe Trp Leu His Lys Gly Glu Ala Gln Arg Cys Pro
 130 135 140

Arg Cys Gly Ala His Tyr Lys Leu Val Pro Gln Gln Leu Ala His
 145 150 155

<210> 469

<211> 58

<212> PRT

<213> Homo sapiens

<400> 469

Lys Phe Thr Lys Cys Leu Val Gln Leu Asn Ile Leu Leu Phe Lys Cys
 1 5 10 15

Val Leu Leu Asn Phe Leu Leu Ser Leu Leu Asn Asn Leu Cys Gly Lys
 20 25 30

Met Cys Val Ser Thr Phe Pro Ser Phe Phe Ile Ser Tyr Phe Gln Glu
 35 40 45

Ser Asn Val Ala Ile Asn Cys Ile Leu Val
 50 55

<210> 470

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 470

Cys Ser Gly Thr Trp Lys Lys His Asp Arg Lys Ile Ala Asp Gln Glu
 1 5 10 15

Ile Trp Glu Arg Gly Met Ser Ile Asp Leu Ser Phe Phe Phe Phe Phe
 20 25 30

Phe Phe Phe Phe Phe Phe Phe Xaa
 35 40

<210> 471
<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 471
Gln Ala Gly Leu Ser Arg Tyr Gly Ser Pro Leu Gly Arg Arg Lys Lys
1 5 10 15
Gly Gly Ser Cys Leu Leu Pro Gly Glu Gly Leu Arg Gly Arg Gly Lys
20 25 30
Pro Arg Ala Pro Thr Lys Ala Asp Ile Asp Ser Gln Gly Leu Gly Leu
35 40 45
Lys Pro Gly Thr Val Xaa Leu Ser Gly Ser Tyr Trp
50 55 60

<210> 472
<211> 398
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (391)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 472
Asn Gln Leu Ser Ser Ile Met Val Met Phe Lys Lys Ile Lys Ser Phe
1 5 10 15
Glu Val Val Phe Asn Asp Pro Glu Lys Val Tyr Gly Ser Gly Glu Lys
20 25 30
Val Ala Gly Arg Val Ile Val Glu Val Cys Glu Val Thr Arg Val Lys
35 40 45
Ala Val Arg Ile Leu Ala Cys Gly Val Ala Lys Val Leu Trp Met Gln
50 55 60
Gly Ser Gln Gln Cys Lys Gln Thr Ser Glu Tyr Leu Arg Tyr Glu Asp

65		70		75		80									
Thr	Leu	Leu	Leu	Glu	Asp	Gln	Pro	Thr	Gly	Glu	Asn	Glu	Met	Val	Ile
				85					90					95	
Met	Arg	Pro	Gly	Asn	Lys	Tyr	Glu	Tyr	Lys	Phe	Gly	Phe	Glu	Leu	Pro
			100					105					110		
Gln	Gly	Pro	Leu	Gly	Thr	Ser	Phe	Lys	Gly	Lys	Tyr	Gly	Cys	Val	Asp
		115					120					125			
Tyr	Trp	Val	Lys	Ala	Phe	Leu	Asp	Arg	Pro	Ser	Gln	Pro	Thr	Gln	Glu
	130						135				140				
Thr	Lys	Lys	Asn	Phe	Glu	Val	Val	Asp	Leu	Val	Asp	Val	Asn	Thr	Pro
145					150					155					160
Asp	Leu	Met	Ala	Pro	Val	Ser	Ala	Lys	Lys	Glu	Lys	Lys	Val	Ser	Cys
			165					170						175	
Met	Phe	Ile	Pro	Asp	Gly	Arg	Val	Ser	Val	Ser	Ala	Arg	Ile	Asp	Arg
		180						185					190		
Lys	Gly	Phe	Cys	Glu	Gly	Asp	Glu	Ile	Ser	Ile	His	Ala	Asp	Phe	Glu
	195						200					205			
Asn	Thr	Cys	Ser	Arg	Ile	Val	Val	Pro	Lys	Ala	Ala	Ile	Val	Ala	Arg
	210					215						220			
His	Thr	Tyr	Leu	Ala	Asn	Gly	Gln	Thr	Lys	Val	Leu	Thr	Gln	Lys	Leu
225					230					235					240
Ser	Ser	Val	Arg	Gly	Asn	His	Ile	Ile	Ser	Gly	Thr	Cys	Ala	Ser	Trp
			245						250					255	
Arg	Gly	Lys	Ser	Leu	Arg	Val	Gln	Lys	Ile	Arg	Pro	Ser	Ile	Leu	Gly
		260						265					270		
Cys	Asn	Ile	Leu	Arg	Val	Glu	Tyr	Ser	Leu	Leu	Ile	Tyr	Val	Ser	Val
	275						280					285			
Pro	Gly	Ser	Lys	Lys	Val	Ile	Leu	Asp	Leu	Pro	Leu	Val	Ile	Gly	Ser
	290					295					300				
Arg	Ser	Gly	Leu	Ser	Ser	Arg	Thr	Ser	Ser	Met	Ala	Ser	Arg	Thr	Ser
305					310					315					320
Ser	Glu	Met	Ser	Trp	Val	Asp	Leu	Asn	Ile	Pro	Asp	Thr	Pro	Glu	Ala
			325						330					335	
Pro	Pro	Cys	Tyr	Met	Asp	Val	Ile	Pro	Glu	Asp	His	Arg	Leu	Glu	Ser

340 345 350
 Pro Thr Thr Pro Leu Leu Asp Asp Met Asp Gly Ser Gln Asp Ser Pro
 355 360 365
 Ile Phe Met Tyr Ala Pro Glu Phe Lys Phe Met Pro Pro Pro Thr Tyr
 370 375 380
 Thr Glu Val Gly Ser Leu Xaa Ser Leu Leu Leu Asn Leu Ser
 385 390 395

<210> 473
 <211> 259
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (234)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 473
 Lys Glu Ala Gly Ala Ala Thr Gly Pro Arg Ala Met Trp Leu Cys Pro
 1 5 10 15
 Leu Ala Leu Xaa Leu Ile Leu Met Ala Ala Ser Gly Ala Ala Cys Glu
 20 25 30
 Val Lys Asp Val Cys Val Gly Ser Pro Gly Ile Pro Gly Thr Pro Gly
 35 40 45
 Ser His Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Xaa Lys Gly Asp
 50 55 60
 Pro Gly Pro Pro Gly Pro Met Gly Pro Pro Gly Glu Thr Pro Cys Pro
 65 70 75 80
 Pro Gly Asn Asn Gly Leu Pro Gly Ala Pro Gly Val Pro Gly Glu Arg
 85 90 95

Gly Glu Lys Gly Glu Ala Gly Glu Arg Gly Pro Pro Gly Leu Pro Ala
 100 105 110
 His Leu Asp Glu Glu Leu Gln Ala Thr Leu His Asp Phe Arg His Gln
 115 120 125
 Ile Leu Gln Thr Arg Gly Ala Leu Ser Leu Gln Gly Ser Ile Met Thr
 130 135 140
 Val Gly Glu Lys Val Phe Ser Ser Asn Gly Gln Ser Ile Thr Phe Asp
 145 150 155 160
 Ala Ile Gln Glu Ala Cys Ala Arg Ala Gly Gly Arg Ile Ala Val Pro
 165 170 175
 Arg Asn Pro Glu Glu Asn Glu Ala Ile Ala Ser Phe Val Lys Lys Tyr
 180 185 190
 Asn Thr Tyr Ala Tyr Val Gly Leu Thr Glu Gly Pro Ser Pro Gly Asp
 195 200 205
 Phe Arg Tyr Ser Asp Gly Thr Pro Val Asn Tyr Thr Asn Trp Tyr Arg
 210 215 220
 Gly Glu Pro Ala Gly Arg Gly Lys Glu Xaa Cys Val Glu Met Tyr Thr
 225 230 235 240
 Asp Gly Gln Trp Asn Asp Arg Asn Cys Leu Tyr Ser Arg Leu Thr Ile
 245 250 255
 Cys Glu Phe

<210> 474
 <211> 231
 <212> PRT
 <213> Homo sapiens

<400> 474
 Gly Thr Val Pro Gly Lys Gly Gln Glu Tyr His Gly Met Gly Met Ser
 1 5 10 15
 Ser Leu Lys Leu Leu Lys Tyr Val Leu Phe Phe Phe Asn Leu Leu Phe
 20 25 30
 Trp Ile Cys Gly Cys Cys Ile Leu Gly Phe Gly Ile Tyr Leu Leu Ile
 35 40 45

His Asn Asn Phe Gly Val Leu Phe His Asn Leu Pro Ser Leu Thr Leu
 50 55 60

 Gly Asn Val Phe Val Ile Val Gly Ser Ile Ile Met Val Val Ala Phe
 65 70 75 80

 Leu Gly Cys Met Gly Ser Ile Lys Glu Asn Lys Cys Leu Leu Met Ser
 85 90 95

 Phe Phe Ile Leu Leu Leu Ile Ile Leu Leu Ala Glu Val Thr Leu Ala
 100 105 110

 Ile Leu Leu Phe Val Tyr Glu Gln Lys Leu Asn Glu Tyr Val Ala Lys
 115 120 125

 Gly Leu Thr Asp Ser Ile His Arg Tyr His Ser Asp Asn Ser Thr Lys
 130 135 140

 Ala Ala Trp Asp Ser Ile Gln Ser Phe Leu Gln Cys Cys Gly Ile Asn
 145 150 155 160

 Gly Thr Ser Asp Trp Thr Ser Gly Pro Pro Ala Ser Cys Pro Ser Asp
 165 170 175

 Arg Lys Val Glu Gly Cys Tyr Ala Lys Ala Arg Leu Trp Phe His Ser
 180 185 190

 Asn Phe Leu Tyr Ile Gly Ile Ile Thr Ile Cys Val Cys Val Ile Glu
 195 200 205

 Val Leu Gly Met Ser Phe Ala Leu Thr Leu Asn Cys Gln Ile Asp Lys
 210 215 220

 Thr Ser Gln Thr Ile Gly Leu
 225 230

<210> 475

<211> 498

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 475

Gly	Thr	Ala	Asn	Glu	Ala	Pro	Trp	Xaa	Arg	Thr	Gln	Ser	Ser	Ala	Leu
1				5				10						15	

Ala	Gly	Pro	Ser	Arg	Ser	Arg	His	His	Gly	Phe	Leu	Gln	Ser	Ser	Ala
			20				25						30		

Gly	Gly	Ala	Ser	Thr	Leu	Gly	Leu	Pro	Ala	Ala	Arg	Gly	Lys	Asp	Phe
		35				40						45			

Asn	Val	Pro	Leu	Ser	Ile	Ser	Arg	Leu	Thr	Pro	Gly	Gly	Lys	Ala	Ala
	50					55					60				

Gln	Ala	Xaa	Val	Ala	Val	Gly	Asp	Trp	Val	Leu	Ser	Ile	Asp	Gly	Glu
65					70					75					80

Asn	Ala	Gly	Ser	Leu	Thr	His	Ile	Glu	Ala	Gln	Asn	Lys	Ile	Arg	Ala
				85					90					95	

Cys	Gly	Glu	Arg	Leu	Ser	Leu	Gly	Leu	Ser	Arg	Ala	Gln	Pro	Val	Gln
			100					105					110		

Ser	Lys	Pro	Gln	Lys	Ala	Xaa	Xaa	Leu	Pro	Cys	Pro	Pro	Ala	Leu	Pro
		115						120					125		

Gly	Cys	Val	Ser	Ala	Gln	Ala	Ser	Ala	Pro	Ala	Ala	Asp	Pro	Pro	Arg
	130					135						140			

Tyr	Thr	Phe	Ala	Pro	Ser	Val	Ser	Leu	Asn	Lys	Thr	Ala	Arg	Pro	Phe
145					150					155					160

Gly	Ala	Pro	Pro	Pro	Ala	Asp	Ser	Ala	Pro	Gln	Gln	Asn	Gly	Gln	Pro
				165					170					175	

Leu	Arg	Pro	Leu	Val	Pro	Asp	Ala	Ser	Lys	Gln	Arg	Leu	Met	Glu	Asn
			180					185					190		

Thr	Glu	Asp	Trp	Arg	Pro	Arg	Pro	Gly	Thr	Gly	Gln	Ser	Arg	Ser	Phe
		195					200					205			

Arg Ile Leu Ala His Leu Thr Gly Thr Glu Phe Met Gln Asp Pro Asp
 210 215 220
 Glu Glu His Leu Lys Lys Ser Ser Gln Val Pro Arg Thr Glu Ala Pro
 225 230 235 240
 Ala Pro Ala Ser Ser Thr Pro Gln Glu Pro Trp Pro Gly Pro Thr Ala
 245 250 255
 Pro Ser Pro Thr Ser Arg Pro Pro Trp Ala Val Asp Pro Ala Phe Ala
 260 265 270
 Glu Arg Tyr Ala Pro Asp Lys Thr Ser Thr Val Leu Thr Arg His Ser
 275 280 285
 Gln Pro Ala Thr Pro Thr Pro Leu Gln Ser Arg Thr Ser Ile Val Gln
 290 295 300
 Ala Ala Ala Gly Gly Val Pro Gly Gly Gly Ser Asn Asn Gly Lys Thr
 305 310 315 320
 Pro Val Cys His Gln Cys His Lys Val Ile Arg Gly Arg Tyr Leu Val
 325 330 335
 Ala Leu Gly His Ala Tyr His Pro Glu Glu Phe Val Cys Ser Gln Cys
 340 345 350
 Gly Lys Val Leu Glu Glu Gly Gly Phe Phe Glu Glu Lys Gly Ala Ile
 355 360 365
 Phe Cys Pro Pro Cys Tyr Asp Val Arg Tyr Ala Pro Ser Cys Ala Lys
 370 375 380
 Cys Lys Lys Lys Ile Thr Gly Glu Ile Met His Ala Leu Lys Met Thr
 385 390 395 400
 Trp His Val His Cys Phe Thr Cys Ala Ala Cys Lys Thr Pro Ile Arg
 405 410 415
 Asn Arg Ala Phe Tyr Met Glu Glu Gly Val Pro Tyr Cys Glu Arg Asp
 420 425 430
 Tyr Glu Lys Met Phe Gly Thr Lys Cys His Gly Cys Asp Phe Lys Ile
 435 440 445
 Asp Ala Gly Asp Arg Phe Leu Glu Ala Leu Gly Phe Ser Trp His Asp
 450 455 460
 Thr Cys Phe Val Cys Ala Ile Cys Gln Ile Asn Leu Glu Gly Lys Thr
 465 470 475 480

Phe Tyr Ser Lys Lys Asp Arg Pro Leu Cys Lys Ser His Ala Phe Ser
 485 490 495

His Val

<210> 476
 <211> 268
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (146)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (158)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (164)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 476
 Gln Glu Ala Ala Ser Leu Gly Ala Val Thr Ser Cys Gly Gln Glu Ser
 1 5 10 15
 Leu Ser Arg Ala Ser Pro Arg Ser Leu Ser Arg Phe Leu Leu Thr Ala
 20 25 30
 His Pro Pro Ala Ala Ala Met Arg His Leu Gly Ala Phe Leu Phe Leu
 35 40 45
 Leu Gly Val Leu Gly Ala Leu Thr Glu Met Cys Glu Ile Pro Glu Met
 50 55 60
 Asp Ser His Leu Val Glu Lys Leu Gly Gln His Leu Leu Pro Trp Met
 65 70 75 80
 Asp Arg Leu Ser Leu Glu His Leu Asn Pro Ser Ile Tyr Val Gly Leu
 85 90 95
 Arg Leu Ser Ser Leu Gln Ala Gly Thr Lys Glu Asp Leu Tyr Leu His
 100 105 110

Ser Leu Lys Leu Gly Tyr Gln Gln Cys Leu Leu Gly Ser Ala Phe Ser
 115 120 125
 Glu Asp Asp Gly Asp Cys Gln Gly Lys Pro Ser Met Gly Gln Leu Ala
 130 135 140
 Ser Xaa Leu Leu Ala Leu Arg Ala Asn Cys Glu Phe Val Xaa Gly His
 145 150 155 160
 Lys Gly Asp Xaa Leu Val Ser Gln Leu Lys Trp Phe Leu Glu Asp Glu
 165 170 175
 Lys Arg Ala Ile Gly His Asp His Lys Gly His Pro His Thr Ser Tyr
 180 185 190
 Tyr Gln Tyr Gly Leu Gly Ile Leu Ala Leu Cys Leu His Gln Lys Arg
 195 200 205
 Val His Asp Ser Val Val Asp Lys Leu Leu Tyr Ala Val Glu Pro Phe
 210 215 220
 His Gln Gly His His Ser Val Asp Thr Ala Ala Met Ala Gly Leu Ala
 225 230 235 240
 Phe Thr Cys Leu Lys Arg Ser Asn Phe Asn Pro Gly Arg Arg His Gly
 245 250 255
 Ser Pro Trp Pro Ser Glu Gln Cys Glu Arg Arg Ser
 260 265

<210> 477

<211> 549

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (217)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (224)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 477

Ile Leu Glu Phe Pro Val Glu Glu Gln Asp Arg Val Leu Ser Phe Arg
 1 5 10 15

Cys Gln Ala Arg Ile Ile Ser Gly Ile His Met Gln Thr Ser Glu Ser
 20 25 30
 Thr Lys Ser Glu Leu Val Thr Val Thr Glu Ser Phe Ser Thr Pro Lys
 35 40 45
 Phe His Ile Ser Pro Thr Gly Met Ile Met Glu Gly Ala Gln Leu His
 50 55 60
 Ile Lys Cys Thr Ile Gln Val Thr His Leu Ala Gln Glu Phe Pro Glu
 65 70 75 80
 Ile Ile Ile Gln Lys Asp Lys Ala Ile Val Ala His Asn Arg His Gly
 85 90 95
 Asn Lys Ala Val Tyr Ser Val Met Ala Met Val Glu His Ser Gly Asn
 100 105 110
 Tyr Thr Cys Lys Val Glu Ser Ser Arg Ile Ser Lys Val Ser Ser Ile
 115 120 125
 Val Val Asn Ile Thr Glu Leu Phe Ser Lys Pro Glu Leu Glu Ser Ser
 130 135 140
 Phe Thr His Leu Asp Gln Gly Glu Arg Leu Asn Leu Ser Cys Ser Ile
 145 150 155 160
 Pro Gly Ala Pro Pro Ala Asn Phe Thr Ile Gln Lys Glu Asp Thr Ile
 165 170 175
 Val Ser Gln Thr Gln Asp Phe Thr Lys Ile Ala Ser Lys Ser Asp Ser
 180 185 190
 Gly Thr Tyr Ile Cys Thr Ala Gly Ile Asp Lys Val Val Lys Lys Ser
 195 200 205
 Asn Thr Val Gln Ile Val Val Cys Xaa Met Leu Ser Gln Pro Arg Xaa
 210 215 220
 Ser Tyr Asp Ala Gln Phe Glu Val Ile Lys Gly Gln Thr Ile Glu Val
 225 230 235 240
 Arg Cys Glu Ser Ile Ser Gly Thr Leu Pro Ile Ser Tyr Gln Leu Leu
 245 250 255
 Lys Thr Ser Lys Val Leu Glu Asn Ser Thr Lys Asn Ser Asn Asp Pro
 260 265 270
 Ala Val Phe Lys Asp Asn Pro Thr Glu Asp Val Glu Tyr Gln Cys Val
 275 280 285

Ala Asp Asn Cys His Ser His Ala Lys Met Leu Ser Glu Val Leu Arg
 290 295 300
 Val Lys Val Ile Ala Pro Val Asp Glu Val Gln Ile Ser Ile Leu Ser
 305 310 315 320
 Ser Lys Val Val Glu Ser Gly Glu Asp Ile Val Leu Gln Cys Ala Val
 325 330 335
 Asn Glu Gly Ser Gly Pro Ile Thr Tyr Lys Phe Tyr Arg Glu Lys Glu
 340 345 350
 Gly Lys Pro Phe Tyr Gln Met Thr Ser Asn Ala Thr Gln Ala Phe Trp
 355 360 365
 Thr Lys Gln Lys Ala Ser Lys Glu Gln Glu Gly Glu Tyr Tyr Cys Thr
 370 375 380
 Ala Phe Asn Arg Ala Asn His Ala Ser Ser Val Pro Arg Ser Lys Ile
 385 390 395 400
 Leu Thr Val Arg Val Ile Leu Ala Pro Trp Lys Lys Gly Leu Ile Ala
 405 410 415
 Val Val Ile Ile Gly Val Ile Ile Ala Leu Leu Ile Ile Ala Ala Lys
 420 425 430
 Cys Tyr Phe Leu Arg Lys Ala Lys Ala Lys Gln Met Pro Val Glu Met
 435 440 445
 Ser Arg Pro Ala Val Pro Leu Leu Asn Ser Asn Asn Glu Lys Met Ser
 450 455 460
 Asp Pro Asn Met Glu Ala Asn Ser His Tyr Gly His Asn Asp Asp Val
 465 470 475 480
 Arg Asn His Ala Met Lys Pro Ile Asn Asp Asn Lys Glu Pro Leu Asn
 485 490 495
 Ser Asp Val Gln Tyr Thr Glu Val Gln Val Ser Ser Ala Glu Ser His
 500 505 510
 Lys Asp Leu Gly Lys Lys Asp Thr Glu Thr Val Tyr Ser Glu Val Arg
 515 520 525
 Lys Ala Val Pro Asp Ala Val Glu Ser Arg Tyr Ser Arg Thr Glu Gly
 530 535 540
 Ser Leu Asp Gly Thr
 545

<210> 478

<211> 364

<212> PRT

<213> Homo sapiens

<400> 478

Gly Arg Val Gly Gly Arg Val Gly Gly Pro Trp Val Ala Ala Thr Ser
1 5 10 15

Ala Asp Pro Glu Arg Lys Ser Gln Ala Ala Ser Ala Ala Met Trp Ala
20 25 30

Thr Leu Pro Leu Leu Cys Ala Gly Ala Trp Leu Leu Gly Val Pro Val
35 40 45

Cys Gly Ala Ala Glu Leu Ser Val Asn Ser Leu Glu Lys Phe His Phe
50 55 60

Lys Ser Trp Met Ser Lys His Arg Lys Thr Tyr Ser Thr Glu Glu Tyr
65 70 75 80

His His Arg Leu Gln Thr Phe Ala Ser Asn Trp Arg Lys Ile Asn Ala
85 90 95

His Asn Asn Gly Asn His Thr Phe Lys Met Ala Leu Asn Gln Phe Ser
100 105 110

Asp Met Ser Phe Ala Glu Ile Lys His Lys Tyr Leu Trp Ser Glu Pro
115 120 125

Gln Asn Cys Ser Ala Thr Lys Ser Asn Tyr Leu Arg Gly Thr Gly Pro
130 135 140

Tyr Pro Pro Ser Val Asp Trp Arg Lys Lys Gly Asn Phe Val Ser Pro
145 150 155 160

Val Lys Asn Gln Gly Ala Cys Gly Ser Cys Trp Thr Phe Ser Thr Thr
165 170 175

Gly Ala Leu Glu Ser Ala Ile Ala Ile Ala Thr Gly Lys Met Leu Ser
180 185 190

Leu Ala Glu Gln Gln Leu Val Asp Cys Ala Gln Asp Phe Asn Asn His
195 200 205

Gly Cys Gln Gly Gly Leu Pro Ser Gln Ala Phe Glu Tyr Ile Leu Tyr
210 215 220

Asn Lys Gly Ile Met Gly Glu Asp Thr Tyr Pro Tyr Gln Gly Lys Asp

225 230 235 240
 Gly Tyr Cys Lys Phe Gln Pro Gly Lys Ala Ile Gly Phe Val Lys Asp
 245 250 255
 Val Ala Asn Ile Thr Ile Tyr Asp Glu Glu Ala Met Val Glu Ala Val
 260 265 270
 Ala Leu Tyr Asn Pro Val Ser Phe Ala Phe Glu Val Thr Gln Asp Phe
 275 280 285
 Met Met Tyr Arg Thr Gly Ile Tyr Ser Ser Thr Ser Cys His Lys Thr
 290 295 300
 Pro Asp Lys Val Asn His Ala Val Leu Ala Val Gly Tyr Gly Glu Lys
 305 310 315 320
 Asn Gly Ile Pro Tyr Trp Ile Val Lys Asn Ser Trp Gly Pro Gln Trp
 325 330 335
 Gly Met Asn Gly Tyr Phe Leu Ile Glu Arg Gly Lys Asn Met Cys Gly
 340 345 350
 Leu Ala Ala Cys Ala Ser Tyr Pro Ile Pro Leu Val
 355 360

<210> 479

<211> 451

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (266)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (388)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 479

Ser Thr His Ala Ser Ala His Ala Ser Ala Ala Thr Gln Ser Cys Asn
 1 5 10 15

Leu Ser Leu Ala Met Ala Pro Ser Ser Pro Arg Pro Ala Leu Pro Ala
 20 25 30

Leu Leu Val Leu Leu Gly Ala Leu Phe Pro Gly Pro Gly Asn Ala Gln
 35 40 45

Thr Ser Val Ser Pro Ser Lys Val Ile Leu Pro Arg Gly Gly Ser Val
 50 55 60

Leu Val Thr Cys Ser Thr Ser Cys Asp Gln Pro Lys Leu Leu Gly Ile
 65 70 75 80

Glu Thr Pro Leu Pro Lys Lys Glu Leu Leu Leu Pro Gly Asn Asn Arg
 85 90 95

Lys Val Tyr Glu Leu Ser Asn Val Gln Glu Asp Ser Gln Pro Met Cys
 100 105 110

Tyr Ser Asn Cys Pro Asp Gly Gln Ser Thr Ala Lys Thr Phe Leu Thr
 115 120 125

Val Tyr Trp Thr Pro Glu Arg Val Glu Leu Ala Pro Leu Pro Ser Trp
 130 135 140

Gln Pro Val Gly Lys Asn Leu Thr Leu Arg Cys Gln Val Glu Gly Gly
 145 150 155 160

Ala Pro Arg Ala Asn Leu Thr Val Val Leu Leu Arg Gly Glu Lys Glu
 165 170 175

Leu Lys Arg Glu Pro Ala Val Gly Glu Pro Ala Glu Val Thr Thr Thr
 180 185 190

Val Leu Val Arg Arg Asp His His Gly Ala Asn Phe Ser Cys Arg Thr
 195 200 205

Glu Leu Asp Leu Arg Pro Gln Gly Leu Glu Leu Phe Glu Asn Thr Ser
 210 215 220

Ala Pro Tyr Gln Leu Gln Thr Phe Val Leu Pro Ala Thr Pro Pro Gln
 225 230 235 240

Leu Val Ser Pro Arg Val Leu Glu Val Asp Thr Gln Gly Thr Val Val
 245 250 255

Cys Ser Leu Asp Gly Leu Phe Pro Val Xaa Glu Ala Gln Val Xaa Leu
 260 265 270

Ala Leu Gly Asp Gln Arg Leu Asn Pro Thr Val Thr Tyr Gly Asn Asp
 275 280 285

Ser Phe Ser Ala Lys Ala Ser Val Ser Val Thr Ala Glu Asp Glu Gly
 290 295 300
 Thr Gln Arg Leu Thr Cys Ala Val Ile Leu Gly Asn Gln Ser Gln Glu
 305 310 315 320
 Thr Leu Gln Thr Val Thr Ile Tyr Ser Phe Pro Ala Pro Asn Val Ile
 325 330 335
 Leu Thr Lys Pro Glu Val Ser Glu Gly Thr Glu Val Thr Val Lys Cys
 340 345 350
 Glu Ala His Pro Arg Ala Lys Val Thr Leu Asn Gly Val Pro Ala Gln
 355 360 365
 Pro Leu Gly Pro Arg Ala Ser Cys Leu Leu Lys Ala Thr Pro Glu Asp
 370 375 380
 Asn Gly Arg Xaa Ser Pro Ala Leu Gln Pro Trp Arg Trp Pro Ala Ser
 385 390 395 400
 Leu Tyr Thr Arg Thr Arg Pro Gly Ser Phe Val Ser Cys Met Ala Pro
 405 410 415
 Asp Trp Thr Arg Gly Ile Val Arg Glu Thr Gly Arg Gly Gln Lys Ile
 420 425 430
 Pro Ser Arg Leu Gln Cys Ala Arg Leu Gly Gly Thr His Cys Pro Ser
 435 440 445
 Ser Ser Val
 450

<210> 480

<211> 278

<212> PRT

<213> Homo sapiens

<400> 480

Gly Tyr Cys Thr His Pro Ser Phe Ile Ser Leu Gln His Leu Phe Leu
 1 5 10 15
 Glu Gly Val Asn Thr Asn Ser Ser Asp Leu Gly Ser Leu Pro Glu Lys
 20 25 30
 Met Gln Pro Phe Leu Leu Leu Leu Ala Phe Leu Leu Thr Pro Gly Ala
 35 40 45

Gly Thr Glu Glu Ile Ile Gly Gly His Glu Ala Lys Pro His Ser Arg
 50 55 60
 Pro Tyr Met Ala Phe Val Gln Phe Leu Gln Glu Lys Ser Arg Lys Arg
 65 70 75 80
 Cys Gly Gly Ile Leu Val Arg Lys Asp Phe Val Leu Thr Ala Ala His
 85 90 95
 Cys Gln Gly Ser Ser Ile Asn Val Thr Leu Gly Ala His Asn Ile Lys
 100 105 110
 Glu Gln Glu Arg Thr Gln Gln Phe Ile Pro Val Lys Arg Pro Ile Pro
 115 120 125
 His Pro Ala Tyr Asn Pro Lys Asn Phe Ser Asn Asp Ile Met Leu Leu
 130 135 140
 Gln Leu Glu Arg Lys Ala Lys Trp Thr Thr Ala Val Arg Pro Leu Arg
 145 150 155 160
 Leu Pro Ser Ser Lys Ala Gln Val Lys Pro Gly Gln Leu Cys Ser Val
 165 170 175
 Ala Gly Trp Gly Tyr Val Ser Met Ser Thr Leu Ala Thr Thr Leu Gln
 180 185 190
 Glu Val Leu Leu Thr Val Gln Lys Asp Cys Gln Cys Glu Arg Leu Phe
 195 200 205
 His Gly Asn Tyr Ser Arg Ala Thr Glu Ile Cys Val Gly Asp Pro Lys
 210 215 220
 Lys Thr Gln Thr Gly Phe Lys Gly Asp Ser Gly Gly Pro Leu Val Cys
 225 230 235 240
 Lys Asp Val Ala Gln Gly Ile Leu Ser Tyr Gly Asn Lys Lys Gly Thr
 245 250 255
 Pro Pro Gly Val Tyr Ile Lys Val Ser His Phe Leu Pro Trp Ile Lys
 260 265 270
 Arg Thr Met Lys Arg Leu
 275

<210> 481

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 481

Asn Ser Leu Ser Pro Ser Pro Trp Ser His Trp Leu Ser Ala Ala Ala
1 5 10 15

Pro Leu Leu Gln Arg Ser Ala Arg Ala Phe Ser Val Val Ile Glu Thr
20 25 30

Leu Leu Met Asp Thr Pro Ser Ser Tyr Glu Ala Ala Met Glu Leu Phe
35 40 45

Ser Pro Asp Gln Asp Met Arg Glu Ala Gly Ala Gln Leu Lys Lys Leu
50 55 60

Val Asp Thr Leu Pro Gln Lys Pro Arg Glu Ser Ile Ile Lys Xaa Met
65 70 75 80

Gly Lys Asn Ser Pro Lys Leu Thr Val Leu Ile Arg His Phe Arg Lys
85 90 95

Leu Glu Asp Pro Pro Thr Gly Ser Ser Leu Leu Pro Leu Pro Trp Phe
100 105 110

Leu Glu Phe His Gly Pro Pro
115

<210> 482

<211> 216

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 482

Lys Val Arg Leu Xaa Val Pro Xaa Arg Asn Ser Arg Val Asp Pro Arg
1 5 10 15

Val Arg Glu His Ser Thr Cys Ser Lys Met Asp Val Gly Ser Lys Glu
 20 25 30
 Val Leu Met Glu Ser Pro Pro Asp Tyr Ser Ala Ala Pro Arg Gly Arg
 35 40 45
 Phe Gly Ile Pro Cys Cys Pro Val His Leu Lys Arg Leu Leu Ile Val
 50 55 60
 Val Val Val Val Val Leu Ile Val Val Val Ile Val Gly Ala Leu Leu
 65 70 75 80
 Met Gly Leu His Met Ser Gln Lys His Thr Glu Met Val Leu Glu Met
 85 90 95
 Ser Ile Gly Ala Pro Glu Ala Gln Gln Arg Leu Ala Leu Ser Glu His
 100 105 110
 Leu Val Thr Thr Ala Thr Phe Ser Ile Gly Ser Thr Gly Leu Val Val
 115 120 125
 Tyr Asp Tyr Gln Gln Leu Leu Ile Ala Tyr Lys Pro Ala Pro Gly Thr
 130 135 140
 Cys Cys Tyr Ile Met Lys Ile Ala Pro Glu Ser Ile Pro Ser Leu Glu
 145 150 155 160
 Ala Leu Thr Arg Lys Val His Asn Phe Gln Ala Lys Pro Ala Val Pro
 165 170 175
 Thr Ser Lys Leu Gly Gln Ala Glu Gly Arg Asp Ala Gly Ser Ala Pro
 180 185 190
 Ser Gly Gly Asp Pro Ala Phe Leu Gly Met Ala Val Ser Thr Leu Cys
 195 200 205
 Gly Glu Val Pro Leu Tyr Tyr Ile
 210 215

<210> 483

<211> 57

<212> PRT

<213> Homo sapiens

<400> 483

Gly Ser Gln Glu Met Thr Ala Asp Leu Ser Pro Glu Gly Phe Met Leu
 1 5 10 15

Gly Val Glu Gly Ile Leu Leu Arg Leu Leu Gly Tyr Gln Glu Thr Gln
 20 25 30

Pro Phe Pro Cys Glu Tyr Leu Ile Leu Leu Leu Val Ser Val Gln Leu
 35 40 45

Leu Leu Asn Asn Arg Gln His Glu Glu
 50 55

<210> 484

<211> 332

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (204)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 484

Leu Ala Cys Val Ser Pro Trp Met Asp Met Trp Thr Ala Leu Leu Ile
 1 5 10 15

Leu Gln Ala Leu Leu Leu Pro Ser Leu Ala Asp Gly Ala Thr Pro Ala
 20 25 30

Leu Arg Phe Val Ala Val Gly Asp Trp Gly Gly Val Pro Asn Ala Pro
 35 40 45

Phe His Thr Ala Arg Glu Met Ala Asn Ala Lys Glu Ile Ala Arg Thr
 50 55 60

Val Gln Ile Leu Gly Ala Asp Phe Ile Leu Ser Leu Gly Asp Asn Phe
 65 70 75 80

Tyr Phe Thr Gly Val Gln Asp Ile Asn Asp Lys Arg Phe Gln Glu Thr
 85 90 95

Phe Glu Asp Val Phe Ser Asp Arg Ser Leu Arg Lys Val Pro Trp Tyr
 100 105 110

Val Leu Ala Gly Asn His Asp His Leu Gly Asn Val Ser Ala Gln Ile
 115 120 125

Ala Tyr Ser Lys Ile Ser Lys Arg Trp Asn Phe Pro Ser Pro Phe Tyr
 130 135 140

Arg Leu His Phe Lys Ile Pro Gln Thr Asn Val Ser Val Ala Ile Phe
 145 150 155 160

Met Leu Asp Thr Val Thr Leu Cys Gly Asn Ser Asp Asp Phe Leu Ser
165 170 175

Gln Gln Pro Glu Arg Pro Arg Asp Val Lys Leu Ala Arg Thr Gln Leu
180 185 190

Ser Trp Leu Lys Lys Gln Leu Ala Ala Ala Arg Xaa Asp Tyr Val Leu
195 200 205

Val Ala Gly His Tyr Pro Val Trp Ser Ile Ala Glu His Gly Pro Thr
210 215 220

His Cys Leu Val Lys Gln Leu Arg Pro Leu Leu Ala Thr Tyr Gly Val
225 230 235 240

Thr Ala Tyr Leu Cys Gly His Asp His Asn Leu Gln Tyr Leu Gln Asp
245 250 255

Glu Asn Gly Val Gly Tyr Val Leu Ser Gly Ala Gly Asn Phe Met Asp
260 265 270

Pro Ser Lys Arg His Gln Arg Lys Val Pro Asn Gly Tyr Leu Arg Phe
275 280 285

His Tyr Gly Thr Glu Asp Ser Leu Gly Gly Phe Ala Tyr Val Glu Ile
290 295 300

Ser Ser Lys Glu Met Thr Val Thr Tyr Ile Glu Ala Ser Gly Lys Ser
305 310 315 320

Leu Phe Lys Thr Arg Leu Pro Arg Arg Ala Arg Pro
325 330

<210> 485

<211> 431

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (264)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 485

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Ser Thr Ser Arg Ala Cys Pro Glu Leu Arg Gly Ser Glu Asp Leu Ser
 1           5           10           15

Thr Met Glu Arg Ala Ser Cys Leu Leu Leu Leu Leu Leu Pro Leu Val
          20           25           30

His Val Ser Ala Thr Thr Pro Glu Pro Cys Glu Leu Asp Asp Glu Asp
          35           40           45

Phe Arg Cys Val Cys Asn Phe Ser Glu Pro Gln Pro Asp Trp Ser Glu
          50           55           60

Ala Phe Gln Cys Val Ser Ala Val Glu Val Glu Ile His Ala Gly Gly
 65           70           75           80

Leu Asn Leu Glu Pro Phe Leu Lys Arg Val Asp Ala Asp Ala Asp Pro
          85           90           95

Arg Gln Tyr Ala Asp Thr Val Lys Ala Leu Arg Val Arg Arg Leu Thr
          100          105          110

Val Gly Ala Ala Gln Val Pro Ala Gln Leu Leu Val Gly Ala Leu Arg
          115          120          125

Val Leu Ala Tyr Ser Arg Leu Lys Glu Leu Thr Leu Glu Asp Leu Lys
          130          135          140

Ile Thr Gly Thr Met Pro Pro Leu Pro Leu Glu Ala Thr Gly Leu Ala
          145          150          155          160

Leu Ser Ser Leu Arg Leu Arg Asn Val Ser Trp Ala Thr Gly Arg Ser
          165          170          175

Trp Leu Ala Glu Leu Gln Gln Trp Leu Lys Pro Gly Leu Lys Val Leu
          180          185          190

Ser Ile Ala Gln Ala His Ser Pro Ala Phe Ser Cys Glu Gln Val Arg
          195          200          205

Ala Phe Pro Ala Leu Thr Ser Leu Asp Leu Ser Asp Asn Pro Gly Leu
          210          215          220

Gly Glu Arg Gly Leu Met Ala Ala Leu Cys Pro His Lys Phe Pro Ala
          225          230          235          240

Ile Gln Asn Leu Ala Leu Arg Asn Thr Gly Met Glu Thr Pro Thr Gly
          245          250          255

Val Cys Ala Ala Leu Ala Xaa Xaa Gly Val Gln Pro His Ser Leu Asp
          260          265          270

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Leu Ser His Asn Ser Leu Arg Ala Thr Val Asn Pro Ser Ala Pro Arg
275 280 285

Cys Met Trp Ser Ser Ala Leu Asn Ser Leu Asn Leu Ser Phe Ala Gly
290 295 300

Leu Glu Gln Val Pro Lys Gly Leu Pro Ala Lys Leu Arg Val Leu Asp
305 310 315 320

Leu Ser Cys Asn Arg Leu Asn Arg Ala Pro Gln Pro Asp Glu Leu Pro
325 330 335

Glu Val Asp Asn Leu Thr Leu Asp Gly Asn Pro Phe Leu Val Pro Gly
340 345 350

Thr Ala Leu Pro His Glu Gly Ser Met Asn Ser Gly Val Val Pro Ala
355 360 365

Cys Ala Arg Ser Thr Leu Ser Val Gly Val Ser Gly Thr Leu Val Leu
370 375 380

Leu Gln Gly Ala Arg Ala Leu Pro Lys Ile Gln Asp Arg Ile Met Asn
385 390 395 400

Gly Leu Lys Leu Pro Trp Leu Gln Gly Ser Pro Val Arg Thr Leu Arg
405 410 415

Thr Phe Arg Pro Ile Gln Pro Phe Ala Pro Pro Leu Leu Lys Ser
420 425 430

<210> 486

<211> 510

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 486

His Glu Glu Thr Gln Ser Phe Ser Ser Ala Lys Met Lys His Ser Leu
1 5 10 15

Asn Ala Leu Leu Ile Phe Leu Ile Ile Thr Ser Ala Trp Gly Gly Ser
20 25 30

Lys Gly Pro Leu Asp Gln Leu Glu Lys Gly Gly Glu Thr Ala Gln Ser

35	40	45
Ala Asp Pro Gln Trp Glu Gln Leu Asn Asn Lys Asn Leu Ser Met Pro		
50	55	60
Leu Leu Pro Ala Asp Phe His Lys Glu Asn Thr Val Thr Asn Asp Trp		
65	70	75
Ile Pro Glu Gly Glu Glu Asp Asp Asp Tyr Leu Asp Leu Glu Lys Ile		
	85	90
Phe Ser Glu Asp Asp Asp Tyr Ile Asp Ile Val Asp Ser Leu Ser Val		
	100	110
Ser Pro Thr Asp Ser Asp Val Ser Ala Gly Asn Ile Leu Gln Leu Phe		
	115	120
His Gly Lys Ser Arg Ile Gln Arg Leu Asn Ile Leu Asn Ala Lys Phe		
	130	140
Xaa Phe Asn Leu Tyr Arg Val Leu Lys Asp Gln Val Asn Thr Phe Asp		
	145	155
Asn Ile Phe Ile Ala Pro Val Gly Ile Ser Thr Ala Met Gly Met Ile		
	165	175
Ser Leu Gly Leu Lys Gly Glu Thr His Glu Gln Val His Ser Ile Leu		
	180	190
His Phe Lys Asp Phe Val Asn Ala Ser Ser Lys Tyr Glu Ile Thr Thr		
	195	205
Ile His Asn Leu Phe Arg Lys Leu Thr His Arg Leu Phe Arg Arg Asn		
	210	220
Phe Gly Tyr Thr Leu Arg Ser Val Asn Asp Leu Tyr Ile Gln Lys Gln		
	225	235
Phe Pro Ile Leu Leu Asp Phe Lys Thr Lys Val Arg Glu Tyr Tyr Phe		
	245	255
Ala Glu Ala Gln Ile Ala Asp Phe Ser Asp Pro Ala Phe Ile Ser Lys		
	260	270
Thr Asn Asn His Ile Met Lys Leu Thr Lys Gly Leu Ile Lys Asp Ala		
	275	285
Leu Glu Asn Ile Asp Pro Ala Thr Gln Met Met Ile Leu Asn Cys Ile		
	290	300
Tyr Phe Lys Gly Ser Trp Val Asn Lys Phe Pro Val Glu Met Thr His		

305		310		315		320
Asn His Asn Phe Arg Leu Asn Glu Arg Glu Val Val Lys Val Ser Met						
		325		330		335
Met Gln Thr Lys Gly Asn Phe Leu Ala Ala Asn Asp Gln Glu Leu Asp						
		340		345		350
Cys Asp Ile Leu Gln Leu Glu Tyr Val Gly Gly Ile Ser Met Leu Ile						
		355		360		365
Val Val Pro His Lys Met Ser Gly Met Lys Thr Leu Glu Ala Gln Leu						
		370		375		380
Thr Pro Arg Val Val Glu Arg Trp Gln Lys Ser Met Thr Asn Arg Thr						
		385		390		395
Arg Glu Val Leu Leu Pro Lys Phe Lys Leu Glu Lys Asn Tyr Asn Leu						
		405		410		415
Val Glu Ser Leu Lys Leu Met Gly Ile Arg Met Leu Phe Asp Lys Asn						
		420		425		430
Gly Asn Met Ala Gly Ile Ser Asp Gln Arg Ile Ala Ile Asp Leu Phe						
		435		440		445
Lys His Gln Gly Thr Ile Thr Val Asn Glu Glu Gly Thr Gln Ala Thr						
		450		455		460
Thr Val Thr Thr Val Gly Phe Met Pro Leu Ser Thr Gln Val Arg Phe						
		465		470		475
Thr Val Asp Arg Pro Phe Leu Phe Leu Ile Tyr Glu His Arg Thr Ser						
		485		490		495
Cys Leu Leu Phe Met Gly Arg Val Ala Asn Pro Ser Arg Ser						
		500		505		510

<210> 487

<211> 190

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 487

His Leu Arg Arg Gln Gln Asp Thr Leu Ser Thr Ala Leu Gln Trp Leu
 1 5 10 15
 Leu Leu Leu Phe Thr Arg Tyr Pro Asp Val Gln Thr Arg Val Gln Ala
 20 25 30
 Glu Leu Asp Gln Val Val Gly Arg Asp Arg Leu Pro Cys Met Gly Asp
 35 40 45
 Gln Pro Asn Leu Pro Tyr Val Leu Ala Phe Leu Tyr Glu Ala Met Arg
 50 55 60
 Phe Ser Ser Phe Val Pro Val Thr Ile Pro His Ala Thr Thr Ala Asn
 65 70 75 80
 Thr Ser Val Leu Gly Tyr His Ile Pro Lys Asp Thr Val Val Phe Val
 85 90 95
 Asn Gln Trp Ser Val Asn His Asp Pro Xaa Lys Trp Pro Asn Pro Glu
 100 105 110
 Asn Phe Asp Pro Ala Arg Phe Leu Asp Lys Asp Gly Leu Ile Asn Lys
 115 120 125
 Asp Leu Thr Ser Arg Val Met Ile Phe Ser Val Gly Lys Arg Arg Cys
 130 135 140
 Ile Gly Glu Glu Leu Ser Lys Met Gln Leu Phe Leu Phe Ile Ser Ile
 145 150 155 160
 Leu Ala His Gln Cys Asp Phe Arg Ala Asn Pro Asn Glu Pro Ala Lys
 165 170 175
 Met Asn Phe Ser Tyr Gly Leu Thr Ile Lys Pro Lys Cys Ile
 180 185 190

<210> 488

<211> 159

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 488

Lys Met Gln Ala Pro Ala Phe Arg Asp Lys Lys Gln Gly Val Ser Ala
 1 5 10 15

Lys Asn Gln Gly Ala His Asp Pro Asp Tyr Glu Asn Ile Thr Leu Ala
 20 25 30
 Phe Lys Asn Gln Asp His Ala Lys Gly Gly His Ser Arg Pro Thr Ser
 35 40 45
 Gln Val Pro Ala Gln Cys Arg Pro Pro Ser Asp Ser Thr Gln Val Pro
 50 55 60
 Cys Trp Leu Tyr Arg Ala Ile Leu Ser Leu Tyr Ile Leu Leu Ala Leu
 65 70 75 80
 Ala Phe Val Leu Cys Ile Ile Leu Ser Ala Phe Ile Met Val Lys Asn
 85 90 95
 Ala Glu Met Ser Lys Glu Leu Leu Gly Phe Lys Arg Glu Leu Trp Asn
 100 105 110
 Val Ser Asn Ser Val Gln Ala Cys Glu Glu Arg Gln Lys Arg Gly Trp
 115 120 125
 Xaa Ser Val Gln Gln Ser Ile Thr Met Val Arg Ser Lys Ile Asp Arg
 130 135 140
 Leu Glu Thr Thr Leu Ala Gly Ile Lys Asn Ile Asp Thr Lys Val
 145 150 155

<210> 489

<211> 284

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (265)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (282)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 489

Glu Arg Glu Arg Glu Arg Glu Arg Gly Val Pro Gly Ala Glu
 1 5 10 15
 Ser Glu Met Ser Ser Ser Gly Thr Pro Asp Leu Pro Val Leu Leu Thr
 20 25 30

Asp Leu Lys Ile Gln Tyr Thr Lys Ile Phe Ile Asn Asn Glu Trp His
 35 40 45
 Asp Ser Val Ser Gly Lys Lys Phe Pro Val Phe Asn Pro Ala Thr Glu
 50 55 60
 Glu Glu Leu Cys Gln Val Glu Glu Gly Asp Lys Glu Asp Val Asp Lys
 65 70 75 80
 Ala Val Lys Ala Ala Arg Gln Ala Phe Gln Ile Gly Ser Pro Trp Arg
 85 90 95
 Thr Met Asp Ala Ser Glu Arg Gly Arg Leu Leu Tyr Lys Leu Ala Asp
 100 105 110
 Leu Ile Glu Arg Asp Arg Leu Leu Leu Ala Thr Met Glu Ser Met Asn
 115 120 125
 Gly Gly Lys Leu Tyr Ser Asn Ala Tyr Leu Asn Asp Leu Ala Gly Cys
 130 135 140
 Ile Lys Thr Leu Arg Tyr Cys Ala Gly Trp Ala Asp Lys Ile Gln Gly
 145 150 155 160
 Arg Thr Ile Pro Ile Asp Gly Asn Phe Phe Thr Tyr Thr Arg His Glu
 165 170 175
 Pro Ile Gly Val Cys Gly Gln Ile Ile Pro Trp Asn Phe Pro Leu Val
 180 185 190
 Met Leu Ile Trp Lys Ile Gly Pro Ala Leu Ser Cys Gly Asn Thr Val
 195 200 205
 Gly Cys Gln Thr Ser Arg Ala Asn Ser Ser His Cys Ser Pro Arg Gly
 210 215 220
 Ile Phe Asn Lys Arg Gly Arg Val Ser Ser Trp Ser Ser Glu Tyr Cys
 225 230 235 240
 Ser Trp Leu Trp Ala Tyr Ser Arg Gly Ser His Phe Phe Ser His Gly
 245 250 255
 Tyr Arg Gln Ser Ser Leu His Arg Xaa Asn Arg Gly Trp Gln Val Asp
 260 265 270
 Gln Arg Ser Cys Arg Glu Lys Gln Ser Xaa Arg Gly
 275 280

<210> 490
 <211> 329
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (84)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (328)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 490
 Ala Gly Gly Glu His Pro Glu Glu Asp Pro Gly Gly Gly Gly Gln Asp
 1 5 10 15
 Pro Arg Gly Pro Asp Pro Gly Asp Glu Ala Glu Ala Leu Thr Gly Arg
 20 25 30
 Gly Gly Ala Gly Gly Gln Leu Glu Gln Thr Lys Arg Val Lys Ala Asn
 35 40 45
 Leu Glu Lys Ala Lys Gln Thr Leu Glu Asn Glu Arg Gly Glu Leu Ala
 50 55 60
 Asn Glu Val Lys Val Leu Leu Gln Gly Lys Gly Asp Ser Glu His Lys
 65 70 75 80
 Arg Lys Lys Xaa Glu Ala Gln Leu Gln Glu Leu Gln Val Lys Phe Asn
 85 90 95
 Glu Gly Glu Arg Val Arg Thr Glu Leu Ala Asp Lys Val Thr Lys Leu
 100 105 110
 Gln Val Glu Leu Asp Asn Val Thr Gly Leu Leu Ser Gln Ser Asp Ser
 115 120 125
 Lys Ser Ser Lys Leu Thr Lys Asp Phe Ser Ala Leu Glu Ser Gln Leu
 130 135 140
 Gln Asp Thr Gln Glu Leu Leu Gln Glu Glu Asn Arg Gln Lys Leu Ser
 145 150 155 160
 Leu Ser Thr Lys Leu Lys Gln Val Glu Asp Glu Lys Asn Ser Phe Arg
 165 170 175
 Glu Gln Leu Glu Glu Glu Glu Glu Ala Lys His Asn Leu Glu Lys Gln
 180 185 190

Ile Ala Thr Leu His Ala Gln Val Ala Asp Met Lys Lys Lys Met Glu
 195 200 205
 Asp Ser Val Gly Cys Leu Glu Thr Ala Glu Glu Val Lys Arg Lys Leu
 210 215 220
 Gln Lys Asp Leu Glu Gly Leu Ser Gln Arg His Glu Glu Lys Val Ala
 225 230 235 240
 Ala Tyr Asp Lys Leu Glu Lys Thr Lys Thr Arg Leu Gln Gln Glu Leu
 245 250 255
 Asp Asp Leu Leu Val Asp Leu Asp His Gln Arg Gln Ser Ala Cys Asn
 260 265 270
 Leu Glu Lys Lys Gln Lys Lys Phe Asp Gln Leu Leu Ala Glu Glu Lys
 275 280 285
 Thr Ile Ser Ala Lys Tyr Ala Glu Glu Arg Asp Arg Ala Glu Ala Glu
 290 295 300
 Ala Arg Glu Lys Glu Thr Lys Ala Leu Ser Leu Ala Arg Ala Leu Glu
 305 310 315 320
 Glu Ala Met Glu Gln Lys Ala Xaa Trp
 325

<210> 491

<211> 309

<212> PRT

<213> Homo sapiens

<400> 491

Gly Arg Ala Ala Ala Pro Gly Leu Ala Thr Arg Thr Gly Glu Cys Asp
 1 5 10 15
 Cys Val Ser Gly Ser Met Ala Glu Lys Arg His Thr Arg Asp Ser Glu
 20 25 30
 Ala Gln Arg Leu Pro Asp Ser Phe Lys Asp Ser Pro Ser Lys Gly Leu
 35 40 45
 Gly Pro Cys Gly Trp Ile Leu Val Ala Phe Ser Phe Leu Phe Thr Val
 50 55 60
 Ile Thr Phe Pro Ile Ser Ile Trp Met Cys Ile Lys Ile Ile Lys Glu
 65 70 75 80

Tyr Glu Arg Ala Ile Ile Phe Arg Leu Gly Arg Ile Leu Gln Gly Gly
 85 90 95
 Ala Lys Gly Pro Gly Leu Phe Phe Ile Leu Pro Cys Thr Asp Ser Phe
 100 105 110
 Ile Lys Val Asp Met Arg Thr Ile Ser Phe Asp Ile Pro Pro Gln Glu
 115 120 125
 Ile Leu Thr Lys Asp Ser Val Thr Ile Ser Val Asp Gly Val Val Tyr
 130 135 140
 Tyr Arg Val Gln Asn Ala Thr Leu Ala Val Ala Asn Ile Thr Asn Ala
 145 150 155 160
 Asp Ser Ala Thr Arg Leu Leu Ala Gln Thr Thr Leu Arg Asn Val Leu
 165 170 175
 Gly Thr Lys Asn Leu Ser Gln Ile Leu Ser Asp Arg Glu Glu Ile Ala
 180 185 190
 His Asn Met Gln Ser Thr Leu Asp Asp Ala Thr Asp Ala Trp Gly Ile
 195 200 205
 Lys Val Glu Arg Val Glu Ile Lys Asp Val Lys Leu Pro Val Gln Leu
 210 215 220
 Gln Arg Ala Met Ala Ala Glu Ala Glu Ala Ser Arg Glu Ala Arg Ala
 225 230 235 240
 Lys Val Ile Ala Ala Glu Gly Glu Met Asn Ala Ser Arg Ala Leu Lys
 245 250 255
 Glu Ala Ser Met Val Ile Thr Glu Ser Pro Ala Ala Leu Gln Leu Arg
 260 265 270
 Tyr Leu Gln Thr Leu Thr Thr Ile Ala Ala Glu Lys Asn Ser Thr Ile
 275 280 285
 Val Phe Pro Leu Pro Ile Asp Met Leu Gln Gly Ile Ile Gly Ala Lys
 290 295 300
 His Ser His Leu Gly
 305

<210> 492

<211> 135

<212> PRT

<213> Homo sapiens

<400> 492

Glu Thr Leu Pro Ser Asn Thr Met Ala Ser Asn Val Thr Asn Lys Thr
 1 5 10 15

Asp Pro Arg Ser Met Asn Ser Arg Val Phe Ile Gly Asn Leu Asn Thr
 20 25 30

Leu Val Val Lys Lys Ser Asp Val Glu Ala Ile Phe Ser Lys Tyr Gly
 35 40 45

Lys Ile Val Gly Cys Ser Val His Lys Gly Phe Ala Phe Val Gln Tyr
 50 55 60

Val Asn Glu Arg Asn Ala Arg Ala Ala Val Ala Gly Glu Asp Gly Arg
 65 70 75 80

Met Ile Ala Gly Gln Val Leu Asp Ile Asn Leu Ala Ala Glu Pro Lys
 85 90 95

Val Asn Arg Gly Lys Ala Gly Val Lys Arg Ser Ala Ala Glu Met Tyr
 100 105 110

Gly Ser Ser Phe Asp Leu Asp Tyr Asp Phe Gln Arg Asp Tyr Tyr Asp
 115 120 125

Arg Met Tyr Ser Tyr Pro Ala
 130 135

<210> 493

<211> 358

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 493

Gly Gly Ser Ala Met Arg Leu Ala Val Leu Phe Ser Gly Ala Leu Leu
 1 5 10 15

Gly Leu Leu Ala Ala Gln Gly Thr Gly Asn Asp Cys Pro His Lys Lys
 20 25 30

Ser Ala Thr Leu Leu Pro Ser Phe Thr Val Xaa Pro Thr Val Thr Glu
 35 40 45

Ser Thr Gly Thr Thr Ser His Arg Thr Thr Lys Ser His Lys Thr Thr
 50 55 60

Thr His Arg Thr Thr Thr Thr Gly Thr Thr Ser His Gly Pro Thr Thr
 65 70 75 80

Ala Thr His Asn Pro Thr Thr Thr Ser His Gly Asn Val Thr Val His
 85 90 95

Pro Thr Ser Asn Ser Thr Ala Thr Ser Gln Gly Pro Ser Thr Ala Thr
 100 105 110

His Ser Pro Ala Thr Thr Ser His Gly Asn Ala Thr Val His Pro Thr
 115 120 125

Ser Asn Ser Thr Ala Thr Ser Pro Gly Phe Thr Ser Ser Ala His Pro
 130 135 140

Glu Pro Pro Pro Pro Ser Pro Ser Pro Ser Pro Thr Ser Lys Glu Thr
 145 150 155 160

Ile Gly Asp Tyr Thr Trp Thr Asn Gly Ser Gln Pro Cys Val His Leu
 165 170 175

Gln Ala Gln Ile Gln Ile Arg Val Met Tyr Thr Thr Gln Gly Gly Gly
 180 185 190

Glu Ala Trp Gly Ile Ser Val Leu Asn Pro Asn Lys Thr Lys Val Gln
 195 200 205

Gly Ser Cys Glu Gly Ala His Pro His Leu Leu Leu Ser Phe Pro Tyr
 210 215 220

Gly His Leu Ser Phe Gly Phe Met Gln Asp Leu Gln Gln Lys Val Val
 225 230 235 240

Tyr Leu Ser Tyr Met Ala Val Glu Tyr Asn Val Ser Phe Pro His Ala
 245 250 255

Ala Gln Trp Thr Phe Ser Ala Gln Asn Ala Ser Leu Arg Asp Leu Gln
 260 265 270

Ala Pro Leu Gly Gln Ser Phe Ser Cys Ser Asn Ser Ser Ile Ile Leu
 275 280 285

Ser Pro Ala Val His Leu Asp Leu Leu Ser Leu Arg Leu Gln Ala Ala
 290 295 300

Gln Leu Pro His Thr Gly Val Phe Gly Gln Ser Phe Ser Cys Pro Ser
 305 310 315 320

Asp Arg Ser Ile Leu Leu Pro Leu Ile Ile Gly Leu Ile Leu Leu Gly
325 330 335

Leu Leu Ala Leu Val Leu Ile Ala Phe Cys Ile Ile Arg Arg Arg Pro
340 345 350

Ser Ala Tyr Gln Ala Leu
355

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<210> 494
<211> 430
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (290)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (307)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (412)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 494
Gly Arg Pro Ser Ser Gly Leu Arg Ser Pro Gly Pro Gly Xaa Xaa Ser
1 5 10 15

Phe Lys Lys Thr Ser Ser Phe Cys Ala Asp Val Leu Ala Gln Asp Leu
20 25 30

His Lys Pro Ala Phe Glu Ala Asp Ile Ser Glu Leu Ile Leu Cys Gln
35 40 45

Asn Glu Val Asp Tyr Ala Leu Lys Asn Leu Gln Ala Trp Met Lys Asp
 50 55 60

Glu Pro Arg Ser Thr Asn Leu Phe Met Lys Leu Asp Ser Val Phe Ile
 65 70 75 80

Trp Lys Glu Pro Phe Gly Leu Val Leu Ile Ile Ala Pro Trp Asn Tyr
 85 90 95

Pro Leu Asn Leu Thr Leu Val Leu Leu Val Gly Ala Leu Ala Ala Gly
 100 105 110

Asn Cys Val Val Leu Lys Pro Ser Glu Ile Ser Gln Gly Thr Glu Lys
 115 120 125

Val Leu Ala Glu Val Leu Pro Gln Tyr Leu Asp Gln Ser Cys Phe Ala
 130 135 140

Val Val Leu Gly Gly Pro Gln Glu Thr Gly Gln Leu Leu Glu His Lys
 145 150 155 160

Leu Asp Tyr Ile Phe Phe Thr Gly Ser Pro Arg Val Gly Lys Ile Val
 165 170 175

Met Thr Ala Ala Thr Lys His Leu Thr Pro Val Thr Leu Glu Leu Gly
 180 185 190

Gly Lys Asn Pro Cys Tyr Val Asp Asp Asn Cys Asp Pro Gln Thr Val
 195 200 205

Ala Asn Arg Val Ala Trp Phe Cys Tyr Phe Asn Ala Gly Gln Thr Cys
 210 215 220

Val Ala Pro Asp Tyr Val Leu Cys Ser Pro Glu Met Gln Glu Arg Leu
 225 230 235 240

Leu Pro Ala Leu Gln Ser Thr Ile Thr Arg Phe Tyr Gly Asp Asp Pro
 245 250 255

Gln Ser Ser Pro Asn Leu Gly Arg Ile Ile Asn Gln Lys Gln Phe Gln
 260 265 270

Arg Leu Arg Ala Leu Leu Gly Cys Gly Arg Val Ala Ile Gly Gly Gln
 275 280 285

Ser Xaa Glu Ser Asp Arg Tyr Ile Ala Pro Thr Val Leu Val Asp Val
 290 295 300

Gln Glu Xaa Glu Pro Val Met Gln Glu Glu Ile Phe Gly Pro Ile Leu
 305 310 315 320

Pro Ile Val Asn Val Gln Ser Leu Asp Glu Ala Ile Glu Phe Ile Asn
325 330 335

Arg Arg Glu Lys Pro Leu Ala Leu Tyr Ala Phe Ser Asn Ser Ser Gln
340 345 350

Val Val Lys Arg Val Leu Thr Gln Thr Ser Ser Gly Gly Phe Cys Gly
355 360 365

Asn Asp Gly Phe Met His Met Thr Leu Ala Ser Leu Pro Phe Gly Gly
370 375 380

Val	Gly	Ala	Ser	Gly	Met	Gly	Arg	Tyr	His	Gly	Lys	Phe	Ser	Phe	Asp
385					390					395					400

Thr Phe Ser His His Arg Ala Cys Leu Leu Arg Xaa Arg Gly Trp Arg
405 410 415

Ser Ser Thr Pro Ser Ala Thr Arg Arg Asn Arg Arg Ala Ala
420 425 430

<210> 495

<211> 439

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (416)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 495

Asp Ser Arg Thr Arg Tyr Ala Xaa Glu Arg Asp Lys Ala Gln Phe Leu
1 5 10 15

Ser Lys Glu Leu Glu His Val Lys Met Glu Leu Ala Lys Tyr Lys Leu
20 25 30

Ala Glu Lys Thr Glu Thr Ser His Glu Gln Trp Leu Phe Lys Arg Leu
35 40 45

Gln Glu Glu Glu Ala Lys Ser Gly His Leu Ser Arg Glu Val Asp Ala
50 55 60

Leu Lys Glu Lys Ile His Glu Tyr Met Ala Thr Glu Asp Leu Ile Cys
 65 70 75 80
 His Leu Gln Gly Asp His Ser Val Leu Gln Lys Lys Leu Asn Gln Gln
 85 90 95
 Glu Asn Arg Asn Arg Asp Leu Gly Arg Glu Ile Glu Asn Leu Thr Lys
 100 105 110
 Glu Leu Glu Arg Tyr Arg His Phe Ser Lys Ser Leu Arg Pro Ser Leu
 115 120 125
 Asn Gly Arg Arg Ile Ser Asp Pro Gln Val Phe Ser Lys Glu Val Gln
 130 135 140
 Thr Glu Ala Val Asp Asn Glu Pro Pro Asp Tyr Lys Ser Leu Ile Pro
 145 150 155 160
 Leu Glu Arg Ala Val Ile Asn Gly Gln Leu Tyr Glu Glu Ser Glu Asn
 165 170 175
 Gln Asp Glu Asp Pro Asn Asp Glu Gly Ser Val Leu Ser Phe Lys Cys
 180 185 190
 Ser Gln Ser Thr Pro Cys Pro Val Asn Arg Lys Leu Trp Ile Pro Trp
 195 200 205
 Met Lys Ser Lys Glu Gly His Leu Gln Asn Gly Lys Met Gln Thr Lys
 210 215 220
 Pro Asn Ala Asn Phe Val Gln Pro Gly Asp Leu Val Leu Ser His Thr
 225 230 235 240
 Pro Gly Gln Pro Leu His Ile Lys Val Thr Pro Asp His Val Gln Asn
 245 250 255
 Thr Ala Thr Leu Glu Ile Thr Ser Pro Thr Thr Glu Ser Pro His Ser
 260 265 270
 Tyr Thr Ser Thr Ala Val Ile Pro Asn Cys Gly Thr Pro Lys Gln Arg
 275 280 285
 Ile Thr Ile Leu Gln Asn Ala Ser Ile Thr Pro Val Lys Ser Lys Thr
 290 295 300
 Ser Thr Glu Asp Leu Met Asn Leu Glu Gln Gly Met Ser Pro Ile Thr
 305 310 315 320
 Met Ala Thr Phe Ala Arg Ala Gln Thr Pro Glu Ser Cys Gly Ser Leu
 325 330 335

Thr Pro Glu Arg Thr Met Ser Pro Ile Gln Val Leu Ala Val Thr Gly
 340 345 350

Ser Ala Ser Ser Pro Glu Gln Gly Arg Ser Pro Glu Pro Thr Glu Ile
 355 360 365

Ser Ala Lys His Ala Ile Phe Arg Val Ser Pro Asp Arg Gln Ser Ser
 370 375 380

Trp Gln Phe Gln Arg Ser Asn Ser Asn Ser Ser Ser Val Ile Thr Thr
 385 390 395 400

Glu Asp Asn Lys Ile His Ile His Leu Gly Ser Pro Tyr Met Gln Xaa
 405 410 415

Val Ala Ser Pro Val Arg Pro Ala Ser Pro Ser Ala Pro Leu Gln Asp
 420 425 430

Asn Arg Thr Gln Gly Leu Ile
 435

<210> 496

<211> 149

<212> PRT

<213> Homo sapiens

<400> 496

Glu Ser Thr Gly Thr Ala Ser Arg Ala Ala Thr Met Pro Asn Phe Ser
 1 5 10 15

Gly Asn Trp Lys Ile Ile Arg Ser Glu Asn Phe Glu Glu Leu Leu Lys
 20 25 30

Val Leu Gly Val Asn Val Met Leu Arg Lys Ile Ala Val Ala Ala Ala
 35 40 45

Ser Lys Pro Ala Val Glu Ile Lys Gln Glu Gly Asp Thr Phe Tyr Ile
 50 55 60

Lys Thr Ser Thr Thr Val Arg Thr Thr Glu Ile Asn Phe Lys Val Gly
 65 70 75 80

Glu Glu Phe Glu Glu Gln Thr Val Asp Gly Arg Pro Cys Lys Ser Leu
 85 90 95

Val Lys Trp Glu Ser Glu Asn Lys Met Val Cys Glu Gln Lys Leu Leu
 100 105 110

Lys Gly Glu Gly Pro Lys Thr Ser Trp Thr Arg Glu Leu Thr Asn Asp

115 120 125
 Gly Glu Leu Ile Leu Thr Met Thr Ala Asp Asp Val Val Cys Thr Arg
 130 135 140
 Val Tyr Val Arg Glu
 145

<210> 497
 <211> 395
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (164)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 497
 Ala Glu Lys Lys Ser Thr Lys Thr His Ser Leu Leu Val Gly Arg Glu
 1 5 10 15
 Asp Arg Asn Asp Met Ser Thr Ala Gly Lys Val Ile Lys Cys Lys Ala
 20 25 30
 Ala Val Leu Trp Glu Val Lys Lys Pro Phe Ser Ile Glu Asp Val Glu
 35 40 45
 Val Ala Pro Pro Lys Ala Tyr Glu Val Arg Ile Lys Met Val Ala Val
 50 55 60
 Gly Ile Cys Arg Thr Asp Asp His Val Val Ser Gly Asn Leu Val Thr
 65 70 75 80
 Pro Leu Pro Val Ile Leu Gly His Glu Ala Ala Gly Ile Val Glu Ser
 85 90 95
 Val Gly Glu Gly Val Thr Thr Val Lys Pro Gly Asp Lys Val Ile Pro
 100 105 110
 Leu Phe Thr Pro Gln Cys Gly Lys Cys Arg Val Cys Lys Asn Pro Glu
 115 120 125
 Ser Asn Tyr Cys Leu Lys Asn Asp Leu Gly Asn Pro Arg Gly Thr Leu
 130 135 140
 Gln Asp Gly Thr Arg Arg Phe Thr Cys Arg Gly Lys Pro Ile His His
 145 150 155 160

Phe Leu Gly Xaa Ser Thr Phe Ser Gln Tyr Thr Val Val Asp Glu Asn
165 170 175

Ala Val Ala Lys Ile Asp Ala Ala Ser Pro Leu Glu Lys Val Cys Leu
180 185 190

Ile Gly Cys Gly Phe Ser Thr Gly Tyr Gly Ser Ala Val Asn Val Ala
195 200 205

Lys Val Thr Pro Gly Ser Thr Cys Ala Val Phe Gly Leu Gly Gly Val
210 215 220

Gly Leu Ser Ala Val Met Gly Cys Lys Ala Ala Gly Ala Ala Arg Ile
225 230 235 240

Ile Ala Val Asp Ile Asn Lys Asp Lys Phe Ala Lys Ala Lys Glu Leu
245 250 255

Gly Ala Thr Glu Cys Ile Asn Pro Gln Asp Tyr Lys Lys Pro Ile Gln
260 265 270

Glu Val Leu Lys Glu Met Thr Asp Gly Gly Val Asp Phe Ser Phe Glu
275 280 285

Val Ile Gly Arg Leu Asp Thr Met Met Ala Ser Leu Leu Cys Cys His
290 295 300

Glu Ala Cys Gly Thr Ser Val Ile Val Gly Val Pro Pro Ala Ser Gln
305 310 315 320

Asn Leu Ser Ile Asn Pro Met Leu Leu Leu Thr Gly Arg Thr Trp Lys
325 330 335

Gly Ala Val Tyr Gly Gly Phe Lys Ser Lys Glu Gly Ile Pro Lys Leu
340 345 350

Val Ala Asp Phe Met Ala Lys Lys Phe Ser Leu Asp Ala Leu Ile Thr
355 360 365

His Val Leu Pro Phe Glu Lys Ile Asn Glu Gly Phe Asp Leu Leu His
370 375 380

Ser Gly Lys Ser Ile Arg Thr Val Leu Thr Phe
385 390 395

<210> 498

<211> 281

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 498

Arg Thr Leu Gly Xaa Pro Ser Ala Ser Val Leu Pro His Ser Arg Ala
 1 5 10 15

Leu Leu Thr Pro Xaa Arg Ala Pro Lys Lys Lys Met Ala Ile Ser Gly
 20 25 30

Val Pro Val Leu Gly Phe Phe Ile Ile Ala Val Leu Met Ser Ala Gln
 35 40 45

Glu Ser Trp Ala Ile Lys Glu Glu His Val Ile Ile Gln Ala Glu Phe
 50 55 60

Tyr Leu Asn Pro Asp Gln Ser Gly Glu Phe Met Phe Asp Phe Asp Gly
 65 70 75 80

Asp Glu Ile Phe His Val Asp Met Ala Lys Lys Glu Thr Val Trp Arg
 85 90 95

Leu Glu Glu Phe Gly Arg Phe Ala Ser Phe Glu Ala Gln Gly Ala Leu
 100 105 110

Ala Asn Ile Ala Val Asp Lys Ala Asn Leu Glu Ile Met Thr Lys Arg
 115 120 125

Ser Asn Tyr Thr Pro Ile Thr Asn Val Pro Pro Glu Val Thr Val Leu
 130 135 140

Thr Asn Ser Pro Val Glu Leu Arg Glu Pro Asn Val Leu Ile Cys Phe
 145 150 155 160

Ile Asp Lys Phe Thr Pro Pro Val Val Asn Val Thr Trp Leu Arg Asn
 165 170 175

Gly Lys Pro Val Thr Thr Gly Val Ser Glu Thr Val Phe Leu Pro Arg
 180 185 190

Glu Asp His Leu Phe Arg Lys Phe His Tyr Leu Pro Phe Leu Pro Ser
 195 200 205

Thr Glu Asp Val Tyr Asp Cys Arg Val Glu His Trp Gly Leu Asp Glu
 210 215 220

Pro Leu Leu Lys His Trp Glu Phe Asp Ala Pro Ser Pro Leu Pro Glu
 225 230 235 240

Thr Thr Glu Asn Val Val Cys Ala Leu Gly Leu Thr Val Gly Leu Val
 245 250 255

Gly Ile Ile Ile Gly Thr Ile Phe Ile Ile Lys Gly Val Arg Lys Ser
 260 265 270

Asn Ala Ala Glu Arg Arg Gly Pro Leu
 275 280

<210> 499

<211> 446

<212> PRT

<213> Homo sapiens

<400> 499

Pro Glu Gln Gly Gly Glu Arg Leu Ser Cys Pro Pro Glu Leu Leu Pro
 1 5 10 15

Gly Asp Asn Pro Ser Gln Pro Ile Ala Gln Pro Arg Ser Pro Tyr Ile
 20 25 30

Arg Pro Arg Leu Leu Ala Leu Pro Leu Gly Gln Cys His Leu Gln Asp
 35 40 45

Thr Asp Ser Pro Pro Ser Ala Gln Pro Ser Gln Val Ser Tyr Thr Ala
 50 55 60

Thr Met Pro Phe Gly Asn Thr His Asn Lys Phe Lys Leu Asn Tyr Lys
 65 70 75 80

Pro Glu Glu Glu Tyr Pro Asp Leu Ser Lys His Asn Asn His Met Ala
 85 90 95

Lys Val Leu Thr Leu Glu Leu Tyr Lys Lys Leu Arg Asp Lys Glu Thr
 100 105 110

Pro Ser Gly Phe Thr Val Asp Asp Val Ile Gln Thr Gly Val Asp Asn
 115 120 125

Pro Gly His Pro Phe Ile Met Thr Val Gly Cys Val Ala Gly Asp Glu
 130 135 140

Glu Ser Tyr Glu Val Phe Lys Glu Leu Phe Asp Pro Ile Ile Ser Asp

145		150		155		160
Arg His Gly Gly Tyr Lys Pro Thr Asp Lys His Lys Thr Asp Leu Asn						
		165		170		175
His Glu Asn Leu Lys Gly Gly Asp Asp Leu Asp Pro Asn Tyr Val Leu						
		180		185		190
Ser Ser Arg Val Arg Thr Gly Arg Ser Ile Lys Gly Tyr Thr Leu Pro						
		195		200		205
Pro His Cys Ser Arg Gly Glu Arg Arg Ala Val Glu Lys Leu Ser Val						
		210		215		220
Glu Ala Leu Asn Ser Leu Thr Gly Glu Phe Lys Gly Lys Tyr Tyr Pro						
		225		230		240
Leu Lys Ser Met Thr Glu Lys Glu Gln Gln Gln Leu Ile Asp Asp His						
		245		250		255
Phe Leu Phe Asp Lys Pro Val Ser Pro Leu Leu Leu Ala Ser Gly Met						
		260		265		270
Ala Arg Asp Trp Pro Asp Ala Arg Gly Ile Trp His Asn Asp Asn Lys						
		275		280		285
Ser Phe Leu Val Trp Val Asn Glu Glu Asp His Leu Arg Val Ile Ser						
		290		295		300
Met Glu Lys Gly Gly Asn Met Lys Glu Val Phe Arg Arg Phe Cys Val						
		305		310		320
Gly Leu Gln Lys Ile Glu Glu Ile Phe Lys Lys Ala Gly His Pro Phe						
		325		330		335
Met Trp Asn Gln His Leu Gly Tyr Val Leu Thr Cys Pro Ser Asn Leu						
		340		345		350
Gly Thr Gly Leu Arg Gly Gly Val His Val Lys Leu Ala His Leu Ser						
		355		360		365
Lys His Pro Lys Phe Glu Glu Ile Leu Thr Arg Leu Arg Leu Gln Lys						
		370		375		380
Arg Gly Thr Gly Gly Val Asp Thr Ala Ala Val Gly Ser Val Phe Asp						
		385		390		400
Val Ser Asn Ala Asp Arg Leu Gly Ser Ser Glu Val Glu Gln Val Gln						
		405		410		415
Leu Val Val Asp Gly Val Lys Leu Met Val Glu Met Glu Lys Lys Leu						